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PROFESSIONAL SUMMARY

Applied AI and frontend engineer, team lead at JP Morgan Chase, with an MSc in Advanced Computer Science with Artificial Intelligence. 9+ years of professional experience shipping production software. Puts AI into systems people already depend on: an AI onboarding pipeline that **cut process time 10x**, agents, RAG systems and chat interfaces for the firm's AI implementation, and an admissions platform built end to end with AI pre-screening and AI qualifying calls that **reduced manual touchpoints 30x**. Outside work, builds on local models: ALFRED, a fully local LLM companion with a tool-calling agent and on-device voice, and Gerard, a RAG platform on Kubernetes. Deep React and TypeScript UI craft, from consumer apps at Swiggy, Zepto and Cult.fit serving 1M+ daily users to micro-frontends and design systems for traders and compliance teams, with full-stack range across Java/Spring Boot, Node.js, Python, Kafka, PostgreSQL and AWS.

CORE COMPETENCIES

Applied AI & LLM integration | **AI agents, RAG & vector search** | **Local LLMs & on-device voice** | **React, Next.js & TypeScript** | **Design systems & micro-frontends** | **Full-stack: Java, Node.js, Python** | **AWS, Kubernetes & Kafka** | **Team leadership & mentoring**

WORK EXPERIENCE

JP Morgan Chase | Oct 2024 - Present

Senior Associate Software Engineer, Team Lead (2-3 engineers) | Glasgow, Scotland, UK | Managed Accounts, Asset & Wealth Management

- **AI in production:** Integrated AI pipelines into onboarding workflows, with automated decisioning and dynamic data routing that **reduced process time by 10x**. Drive AI service integration across multiple internal applications, automating decision-making over complex financial datasets and adding contextual recommendations.
- **Firm AI implementation:** Built agents, retrieval-augmented generation (RAG) systems and chat interfaces; published reusable AI skills to the internal marketplace and set the rules and guardrails governing their use. Built an AI-assisted development workflow architecture adopted and actively maintained across Asset & Wealth Management.
- **AI adoption:** Coach engineers on where AI-assisted delivery measurably speeds work, and hold AI-generated code to the same review, testing and security gates as everything else.
- **Frontend architecture:** Own UI architecture, Redux state management and Webpack build tooling; built micro-frontends with Webpack Module Federation in an Nx monorepo; worked with MobX, AG-Grid, Highcharts, D3.js and Next.js (server rendering, data fetching and caching); frontend performance profiling on trade systems; Next.js static generation with CDN and edge caching. Contributed to and used the firm's UI frameworks and design systems: Salt, Pepper, Fabric UI and Connect UI.
- **Federal Reserve regulatory reporting:** Architected and led an enterprise-scale Federal Reserve regulatory reporting platform from the ground up for the corporate technology division's next-generation compliance system, leading its React/TypeScript and Java development. Own change and release governance, controls, risk and audit evidence, and secure SDLC gates covering security review and dependency remediation.
- **Team leadership:** Lead and mentor a team of 2-3 engineers through 1:1s, growth planning, onboarding new joiners and technical interviews for the team; mentor junior and mid-level engineers through code reviews, architectural design sessions and 1:1 technical guidance.
- **Managed Accounts:** Lead JavaScript, React (TypeScript), Java and Python development across financial models, investment products, investment banking and trade workflows, including trade capture, for traders, analysts and compliance teams; work on high-performance, low-latency systems processing real-time market data with sub-millisecond response times.
- **Backend & data:** Build Spring Boot microservices exposing REST APIs with Kafka event streaming through the platform; work with gRPC services, Go on Corporate Technology systems and Scala/Play Framework; design PostgreSQL schemas and migrations, and GraphQL schemas and resolvers.
- **Cloud:** Design serverless architectures on AWS (Lambda, S3, RDS/Aurora) managing distributed databases (DynamoDB, Oracle) and real-time data transformation at enterprise scale; run containerised services in production with Kubernetes and infrastructure as code.
- **Reliability & delivery:** Operate high-availability, mission-critical systems with active/active and blue-green deployments, production on-call and incident response; own code quality, automation and testability standards, working test-first (TDD) with pair programming. Scrum Master across Scrum and Kanban delivery, driving roadmap, backlog and estimation with product owners and presenting delivery to senior business stakeholders.

MyUniversityAbroad.com | Nov 2023 - Oct 2024

Lead Engineer | Full-time

- Built the whole platform end to end: one shared applicant record behind three products, a university admissions portal, a white-label portal for recruitment partners (agencies) and free tools for students, across B2B and B2C.
- **AI onboarding:** Orchestrated university onboarding flows using AI-powered calling and automated verification systems, **reducing manual touchpoints and operations by 30x** across the admission pipeline.

- **AI across the product:** AI pre-screening of each application against the programme's published entry rules; one-click AI qualifying calls with voice follow-up, where the counsellor starts the call and the answers populate the applicant record; an AI assistant that answers students' questions.
- **Multilingual AI plugin** deployed across the platform, enabling AI agents to perform complex operations in multiple languages.
- **UI & stack:** Built the React, Next.js and TypeScript front end with Java services; tuned Core Web Vitals and ran WCAG accessibility checks; designed the PostgreSQL schema and migrations and the GraphQL schema behind the platform.
- **Leadership:** Led end-to-end product development and managed a team of developers through the complete lifecycle from ideation to deployment, running sprint planning, stakeholder management and risk assessment.
- **Document verification:** Upload and verification of identity documents, academic transcripts and bank statements, with issuer confirmation (government, awarding institution, bank) and tamper and structured authenticity analysis where no source check exists; document-retention windows configured per UKVI guidance.
- **Admissions workflow:** Automated offer, CAS and condition-letter generation on each university's own branding; officer review workflow with staged review gates, SLA timing and role-signed decisions; an append-only audit ledger of timestamped events per applicant, filterable by actor, action, applicant and programme, where corrections append rather than overwrite, with CSV and signed-PDF export as Basic Compliance Assessment evidence.
- **Recruitment-partner portal:** White-label portal under each agency's own brand; commission tracking on a ledger shared between agencies and universities; partner onboarding, training and certification on destinations and visas, and partner profiles showing each agency's track record.
- **Student tools:** University finder to compare and shortlist by country, tuition and entry requirements; budget calculator (tuition, living costs, visa fees, deposits); intake checklists for deadlines, documents and visa steps; a statement-of-purpose (SOP) guide and course-route guides.
- **Platform:** Applicant journey tracking from lead capture through document verification, university review, offer and CAS, the student visa window, and enrolment and commission; SSO for institutional tenants; SIS integration (SITS, Banner, PeopleSoft) scoped with pilot universities; CSV and SFTP export; consent-scoped data sharing, so a university and an agency see only what the applicant consented to share.
- **Technologies:** React, TypeScript, Next.js, Java, PostgreSQL, GraphQL, AWS, Vercel, Jest, Highcharts, D3.js

Zepto | Aug 2022 - Apr 2023

Lead Engineer | Bengaluru, IN

- Engineered the coupon and voucher system that **doubled sales revenue within one week of launch**.
- Led feature development for a quick-commerce app serving millions of users, from ideation through production deployment.
- Developed native event services to analyse user behaviour, improving product recommendations and sales strategies.
- Mentored junior developers and ran code reviews to maintain code-quality standards.
- **Technologies:** React, React Native, TypeScript, MobX, GraphQL, PostgreSQL, Go, AWS, Android, iOS, Highcharts, D3.js

Recro.io (Cult.fit, Swiggy, Springworks) | Jan 2019 - Aug 2022

Lead / Senior Software Engineer | Bengaluru, IN

- Engineering engagements with three Indian startups, delivered through Recro.io.
- **Cult.fit (Lead Software Engineer):** Architected and launched cultsport.com from concept to market leader, with an **MVP in 21 days and ~GBP 500K weekly revenue in its first month**.
- **Cult.fit:** Engineered healthcare portals with WebRTC for real-time telemedicine consultations between doctors, nutritionists and 100K+ patients; built the food-vertical management dashboard the operations team used to optimise inventory, logistics and customer-satisfaction metrics.
- **Swiggy (Senior Software Engineer):** Rebuilt the Swiggy Money wallet experience, **adding ~GBP 100K in weekly revenue** through better UX, coupon integration and frictionless payments.
- **Swiggy:** Managed critical web infrastructure serving millions of daily users across desktop and mobile at 99.9% uptime; implemented a microservices architecture that supported 300% business growth without an infrastructure overhaul.
- **Springworks (Senior Software Engineer):** Migrated a blockchain-verified professional network from a monolithic Node.js app to the MERN stack, integrating Web3 and Blockstack for decentralised identity verification.

Disprz | Oct 2017 - Dec 2018

Software Engineer | Chennai, IN

- Built an enterprise learning management system for a mobile-first upskilling platform, with custom onboarding flows and client-specific applications.
- Built responsive web interfaces in React 15 and RESTful APIs in ASP.NET; contributed to the React Native mobile app and an Electron desktop app.
- **Technologies:** React, React Native, Electron, WebRTC, ASP.NET, JavaScript

F22 Labs | Jan 2017 - Oct 2017

Software Engineer | Chennai, IN

- Built web and mobile applications for a digital studio's client portfolio in React, AngularJS, Ruby on Rails and PHP, and cross-platform apps in React Native.

PROJECTS

ALFRED: Local-LLM Desktop Companion | **OPEN SOURCE, JUL 2026**

Windows desktop companion running entirely against a local LLM (LM Studio or Ollama, auto-detected), so no data leaves the machine. Hybrid two-model design: a small always-warm model for ambient features and a heavyweight model loaded on demand and unloaded when idle. Tool-calling agent with validated, bounded permissions (notes, reminders, URLs) and background memory distillation of durable user facts. Local voice with Whisper speech-to-text and Kokoro text-to-speech over WebGPU, with voice-activity detection and echo-gating. WebGL CRT interface with streaming chat, reasoning traces, full-text search and a Ctrl+K palette. Streaming chat at **45 tok/s on gpt-oss-20b**; CI via GitHub Actions; MIT licensed.

TypeScript, WebGL, WebGPU, LM Studio, Ollama, Whisper, Kokoro TTS, GitHub Actions

Gerard: RAG Education Platform | **LIVE, JUN 2024 - AUG 2024**

Retrieval-augmented question answering over uploaded course materials, with every answer grounded in the source documents; role-based login, analytics and course/topic/content management. Deployed on Kubernetes with load balancing and auto-scaling, including an auto-scalable multi-model Ollama service. Source: github.com/AlphaH7/Gerard.

FastAPI (Python), Next.js, React, TypeScript, Milvus, Attu, MinIO, PostgreSQL, Ollama, Docker, Kubernetes

CraftBots Planning Agent | **NOV 2023**

Autonomous planning-and-execution agent for CraftBots, a multi-agent simulator from the University of Strathclyde AI group used to benchmark integrated planning and execution.

Python

TGOX: TrainerGoesOnline | **APR 2023 - OCT 2023**

Built a drag-and-drop application builder and sales-page platform that **increased client revenue 10x**, across web, iOS and Android.

React, React Native, TypeScript, Jest, JavaScript

EDUCATION

MSc Advanced Computer Science with Artificial Intelligence **University of Strathclyde** | 2023 - 2024

BTech Computer Science & Engineering **NIIT University** | 2013 - 2017

SKILLS

AI Technologies: LLM integrations, AI agents, RAG, vector databases (Milvus), chat interfaces, local LLMs (Ollama, LM Studio), Whisper speech, Kokoro TTS, Piper TTS, MCP, Claude Code, Codex, Lovable, AI adoption & guardrails, AI code review standards, model training, fine-tuning, voice tensors & cloning

Frontend & UI: React, Next.js (SSR, SSG/ISR, data fetching & caching), TypeScript, JavaScript, Redux, MobX, RxJS, TanStack Query (React Query), Webpack, Module Federation, Nx, Storybook, Salt, Pepper, Fabric UI, Connect UI, AG-Grid, Highcharts, D3.js, Tailwind CSS, HTML/CSS/SASS, Angular, Vue

Design & Motion: Figma, Framer Motion, Three.js, React Three Fiber, WebGL, design-system components

Mobile & Desktop: React Native, Android, iOS, Flutter, Dart, Electron, C#

Backend: Java, Spring Boot, Node.js, Python (FastAPI, Flask), Go, Scala/Play, ASP.NET, PHP, Ruby, C, REST APIs, GraphQL schema design & resolvers, gRPC, WebSockets, Server-Sent Events, microservices, Kafka, OAuth2/OpenID Connect, SSO, headless CMS, domain-driven design

Databases: PostgreSQL, Oracle, DynamoDB, MongoDB, Milvus

Cloud & Infrastructure: AWS (Lambda, S3, RDS/Aurora), Docker, Kubernetes, GCP, Azure, Databricks, Firebase, Vercel, infrastructure as code, CDN & edge caching

Testing & Quality: Jest, Playwright, React Testing Library, Vitest, TDD, pair programming, SonarQube, Core Web Vitals, WCAG accessibility checks

Delivery & Reliability: Active/active & blue-green deployments, high availability, production on-call, incident response, change & release governance, controls/risk/audit, secure SDLC, CI/CD (Jenkins, GitLab CI, GitHub Actions), observability (metrics, logs, tracing)

Leadership & Delivery: Team leadership, mentoring, hiring & technical interviewing, onboarding new joiners, stakeholder management, cross-functional collaboration, Agile, Scrum, Scrum Master, Kanban, risk management, strategic planning