

# PAUL DOHO | SOFTWARE ENGINEER

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A passionate Software Engineer with experience in software development, database management, and cloud-native app development. Expert in architecting full-stack solutions using Python, Go, and React while integrating advanced AI capabilities such as Retrieval-Augmented Generation and natural language processing. Proven track record in optimizing software delivery lifecycles through sophisticated CI/CD pipelines and infrastructure as code within AWS environments.

## CORE COMPETENCIES

Software Development Lifecycle (SDLC) | Testing & Debugging | Embedded Systems Development | Systems Design & Architecture  
Cloud Technologies | Data Analysis | Agile Methodologies | Quality Assurance | Web Development | Test-Driven Development (TDD)  
Technical Documentation | Data Structures & Algorithms | Project Management | RESTful API Design | CI/CD Development | AI & ML

## PROFESSIONAL EXPERIENCE

**AI/ML Engineer** | Excetra Lab, London, UK

Mar 2025 – Present

- Helped launch an AI consulting firm focused on building production-ready **ML systems** and **AI solutions** for enterprise-level clients.
- Architected and deployed **RAG-based document intelligence systems** using **Python**, **vector databases**, and **LLM APIs**.
- Developed asynchronous backend services with **FastAPI** to support real-time inference and high-speed **data processing**.

**Software Engineer II (Associate)** | Goldman Sachs, London, UK

Jan 2025 – Present

- Developed enterprise solutions including **Microsoft Teams** and global notification systems using **Graph API** and **SharePoint**.
- Architected an **NLP-powered** documentation system using **RAG patterns**, **vector embeddings**, and **GPT APIs** to automate quality audits for thousands of internal technical documents.
- Engineered scalable backend services in **Python**, **Go**, and **Java** using **AWS ECS**, **Lambda**, and **DynamoDB** serverless architecture.
- Optimized delivery lifecycles by **64%** via **GitLab CI/CD**, saving engineering teams 4 hours of manual effort weekly.
- Built high-traffic full-stack apps with **React** and **Next.js**, maintaining a platform serving **16k+** users and **1M+** monthly views.

**Software Engineer (Analyst)** | Goldman Sachs, Salt Lake City, UT, USA

Jan 2022 – Dec 2024

- Engineered scalable UIs and front-facing components using **React**, **TypeScript**, and **Gatsby** to enhance internal client experiences.
- Designed **RESTful APIs** in **Java** with **MongoDB**, improving data efficiency, reducing latency, and ensuring high reliability.
- Architected **cloud-native backend services** leveraging **AWS EC2**, **S3**, and **Lambda** to deliver secure and scalable infrastructure.
- Automated software delivery via **CI/CD pipelines** in **Git** environments, incorporating automated testing and containerization.
- Collaborated with global teams to **troubleshoot** technical issues and refine **data validation**, minimizing system downtime.

## KEY PROJECTS

**Teams Mobile Application for Partners** | Goldman Sachs

Jan 2025 – Present

- Engineered a high-visibility mobile app to serve as an everyday companion for partners, integrating Graph API and SharePoint to enable secure, real-time collaboration and seamless document access.
- Technologies used:** *React, Typescript, Java API, AWS, Graph API, SharePoint*

**Internal Developer Portal** | Goldman Sachs

Jan 2022 – Present

- Engineered a central tooling documentation system featuring automated review and publishing flows for 4,500+ pages. Served 16,000+ monthly users and 500k+ views by designing scalable interfaces and optimized backend data management.
- Technologies used:** *React, Java, Next.js, ECS, Lambda, API GW, DocumentDB, Gitlab CI/CD*

**Time for Tennis**

Jan 2025 – Jun 2025

- Built a monitoring service automating court tracking across ClubSpark and Courtside. Features intelligent 10-minute scraping, granular venue "watches," and real-time Telegram and email alerts. Includes a dynamic dashboard for availability and an admin suite, utilizing stateful change detection to ensure accurate, spam-free notifications for high-demand urban areas.
- Technologies used:** *Next.js 15, TypeScript, SQLite, Drizzle ORM, NextAuth.js, Cheerio, Telegram API, Resend, Tailwind CSS 4.0, Railway*

## EDUCATION

**California State University – Northridge, Los Angeles, CA**

Aug 2018 – Dec 2021

Bachelor of Science in Computer Science

## TECHNICAL TOOLS

- Languages & Core Frameworks:** Python, TypeScript, Go, Java, SQL, FastAPI, Node.js, Express.js, React, Next.js, Gatsby, HTML, CSS, Sass, TensorFlow.js
- Data & AI Systems:** pgvector, Redis, MongoDB, PostgreSQL, Azure OpenAI, Transformers, DistilBERT, Vector databases
- Cloud & DevOps:** AWS (EC2, Lambda, S3, ECS, API Gateway, CloudFormation), Docker, GitLab CI/CD, Terraform, Vercel, Unix/Linux
- Testing & Design:** Grafana, Kibana, Prometheus, Jest, Git, GitHub, Material UI, Markdown, MDX, Google Colab, Datadog, PagerDuty