Kevin Chang

U.S. Citizen | 3+ YOE in Full-Stack Development, AI Applications, and Data Automation

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Education

Virginia Tech *Expected Graduation: May 2026 | Willing to Relocate*
Master of Engineering in Computer Science (GPA: 3.9/4.0)

- **Coursework:** Full-stack Development, Software Engineering, Cloud (AWS), Database, Data Structures & Algorithms

Work Experience

MediaTek - Top 5 global chip design company   06/2025 – 08/2025
Software Engineer Intern

- Engineered a **Full-stack Gen-AI Application** with **React(Frontend)**, **Python, FastAPIs, AstraDB(Backend), and GPT-4**
- Built a **RAG-based chatbot** to answer technical queries, achieving **96% top-3 retrieval accuracy** (MRR@3)
- Enabled **83% faster analysis and visualization** of 1M+ records by building end-to-end **ETL** pipelines with **Python, Tableau Prep, BigQuery, and Tableau Desktop**
- Developed **10+ automation pipelines** with **Python**, FastAPI, and UiPath, reducing processing time by **97%**

Kick Your Ads   05/2025 – present
Software Engineer

- Developing a **full-stack LLM web application** to detect scam emails and clean Gmail ads, using **React, TypeScript (frontend), Node.js, AWS, FastAPI(backend), and OpenAI**
- Achieved **94%** top-3 retrieval accuracy (MRR@3) with **GPT-4, Voyage Reranker, and PineconeDB (Vector DB)**
- Handled **200K+ req/min at 300ms latency** by leveraging **Kubernetes** horizontal scaling and **Redis**

Bank Sinopac   07/2020 – 10/2023
Software Developer & Product Manager

- Built a **Full-stack Gen-AI web** for competitive analysis with **React, TypeScript, Python, Java** and **AWS**
- Saved **5 hours** of manual work per task by automating data workflows with **Python, REST APIs, UiPath, and VBA**
- Analyzed **150K+** records via **MSSQL** and developed a real-time **Power BI** dashboard for operational monitoring
- **70%** conversion boost & **$13M+** in loan approvals by leading an **AI product recommendation system**

Skills

Programming: Python, Java, C, React, TypeScript, JavaScript, Express.js, Node.js
Clouds: AWS (DynamoDB / API Gateway / S3 / CloudFront / CloudWatch / Lambda / IAM / MSK), Firebase, GCP
Tools: Docker, Kubernetes, Kafka, UiPath, OAuth, PyTest, Jenkins, Git, Linux, Bash Script, Jest, Cypress
Database: Relational Databases (MSSQL, MySQL), NoSQL (MongoDB, DynamoDB), Redis, IPFS distributed Storage

Achievements & Selective Projects

Distributed Storage and Blockchain   01/2025 – 04/2025

- Developed a decentralized system using **Polygon zkEVM**, **Ed25519 cryptography**, and **IPFS distributed storage**
- Benchmarked **IPFS latency (660 ms)** and **on-chain gas (218 K)**, achieving scalable data authentication on blockchain

Netflix Full-Stack Website [Click to Navigate] User: test123@gmail.com, Password: 123456

- Built a **MERN-based Netflix web** with **JWT auth**, search, ratings, and comments using **React**, **Node.js**, and **MongoDB**
- Achieved **80%** test coverage using **Jest** and **Cypress** for unit and end-to-end testing

Amazon Web Services Hackathon - Game Builder Challenge 2025 [Click to Play]

- Built a real-time **motion-tracking 3D Web game** using **React, JavaScript, Three.js(Frontend), AWS S3, and CloudFront(Backend)**
- Created a **Cloud-native backend** with **DynamoDB, API Gateway**, and **Lambda**, supporting a real-time leaderboard