

Caleb Kim

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Education

Georgia Institute of Technology

Masters of Science, Computer Science

Atlanta, GA

Expected Dec 2027

University of Texas at Dallas

Bachelor of Science, Computer Science

Richardson, TX

Completed May 2025

Experience

AMD | *Python, HTML, PostgreSQL, Figma, Plotly, CSS, Jira, FastAPI, Linux, Ubuntu, RHEL, Unix* Austin, TX
Software Developer June 2025 - May 2026

- Built an internal inventory-tracking system with a **Python/FastAPI backend, PostgreSQL database, Pandas data-processing workflows, and Plotly dashboards** to centralize **10,000+** hardware records across DIMM, CPU, and system inventory.
- Developed **real-time data visualizations** and **augmented inventory datasets** through automated cleaning, transformation, and enrichment workflows, improving hardware lookup, component visibility, and inventory-update accuracy.
- Applied **Agile methodology, unit testing, regression testing, and integration testing** to validate **backend APIs, SQL updates, dashboard outputs, and Jira-based provisioning workflows** across **Ubuntu, RHEL, and Unix server environments**.

Tomorrow's Leaders Today | *Next.js, Node.js, Tailwind CSS, SQLite, OAuth 2.0, Figma, Prisma* Frisco, TX
Software Development Intern Jan - May 2025

- Constructed a **full-stack** Grant/Funding Application Manager with **Next.js, Node.js, SQLite, and Prisma** to aggregate funding opportunities through **automated web scraping**.
- Integrated **Transformers.js** to generate tailored LOI verbiage and grant responses while designing a **responsive UI** with **Tailwind CSS, Headless UI, and Figma**.

University of Texas at Dallas | *Python, Scikit-Learn, Pandas, NumPy, Beautiful Soup* Richardson, TX
Undergraduate Research Intern May - Aug 2024

- Developed a **Python/Beautiful Soup web scraper** that **processed 500+ websites** into a **structured dataset** for training an **Artificial Neural Network** on underrepresented dialect translation.
- Defined **dialect eligibility criteria**, coordinated research strategy with faculty, and supported the Hafez Effort's **AI-driven translation** initiative.

Projects

ApplyIQ | *Java, SpringBoot, React.js, TypeScript, PostgreSQL, Spring Security, Docker, OpenAI API*

- Building a **full-stack Java web application** with **Spring Boot, React.js, TypeScript, and PostgreSQL** that enables users to track job applications, manage statuses, upload resumes, and view **AI-generated resume-to-job match scores** through an **interactive dashboard**.
- Developing **secure REST APIs** with **Spring Boot, Spring Data JPA, Spring Security, and JWT authentication** while integrating **AI-powered features** for skill extraction, fit scoring, interview preparation, and follow-up recommendations.

Tomorrow's Weather | *Python, Scikit-Learn, Flask, React.js, HTML, CSS, AWS S3, DynamoDB, Pandas, NumPy*

- Created a **Python-based senior capstone web application** with **Flask, React.js, and Scikit-Learn** that combines **Random Forest, Linear Regression, and XGBoost models** to generate long-range climate forecasts using global historical data.
- Deployed the **full-stack solution** on AWS using **S3** for media storage and **DynamoDB** for dataset management, supporting scalable data access and **real-time weather updates** from **automated Python scripts**.

Fintasy | *Vue.js, Python, Vite.js, PostgreSQL, Docker, FastAPI, Alpaca, Nginx, Pydantic, Uvicorn*

- Led the design and implementation of a **full-stack paper trading simulation website** with **Vue.js**, achieving a **98% accuracy** in **real-world market data** through virtual tournaments, boosting user engagement by **25%**.
- Engineered a robust **Python backend** coupled with a **PostgreSQL database** to manage stock and user information, enhancing **data retrieval efficiency** by **30%** through optimized **caching** strategies.

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, SQL, C++, C#, C, HTML/CSS

Frameworks: Spring Boot, FastAPI, Flask, React.js, Next.js, Scikit-Learn, PyTorch, TensorFlow, Pandas, NumPy

Technologies: PostgreSQL, DynamoDB, AWS S3, Docker, Git, GitHub, Linux, Jira, Prisma, OAuth 2.0