

Caleb Kim Carrollton, TX | (703)-303-5643
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Education

Georgia Institute of Technology
Masters of Science, Computer Science

Atlanta, GA
Expected May 2027

University of Texas at Dallas
Bachelor of Science, Computer Science

Richardson, TX
May 2025

Experience

AMD | *Python, FastAPI, SQL, Figma, Plotly, CSS, Jira, SSH, Linux, Ubuntu*
Datacenter Technician

- Streamlining server provisioning via **Jira-owned** end-to-end ticket workflows for initializing, restoring, and validating AMD-hosted **Ubuntu** servers, ensuring on-demand test environments and transparent cross-team hand-offs.
- Building an internal **inventory-tracking system** in **Python**, with a **FastAPI** backend, **SQL database**, **Pandas** for **data processing**, along with **Figma wire-frames**, **Plotly**, & **CSS** for an intuitive, sleek frontend improving hardware management & automation.

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

- Constructed a **full-stack**, low-maintenance Grant / Funding Application Manager using **Next.js**, **Node.js**, **SQLite**, and **Prisma** to automate the aggregation of funding opportunities from all foundation sources through **advanced web scraping techniques**, ensuring **real-time data updates** and streamlined resource discovery.
- Integrated **Generative AI** with **Transformers.js** to auto-generate tailored **LOI verbiage** and grant application responses, while designing an intuitive **user interface** using **TailWind CSS**, **Headless UI**, and **Figma** to deliver a seamless **user experience**.

Projects

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**, **HTML**, & **CSS** that combines **Random Forest** & **Linear Regression** models using **Scikit-Learn**, **XGBoost**, **Pandas**, & **NumPy**, to produce accurate **long-range** (weeks - years) climate forecasts with a **95.4% overall accuracy** through utilization of global data, spanning several centuries.
- Deployed and built the **full-stack** solution on **AWS**, using **S3** for media storage & **DynamoDB** for dataset management to ensure resource-efficiency and scalability with **real-time**, modern data collected through **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.

Leadership

ACM UTD | *Co-Director*

Feb 2022 - May 2025

- Led a structured **mentorship program** for over **75 mentees**, offering one-on-one resume reviews, career advice, and personalized growth plans, resulting in a **70% improvement** in mentees resumes, and provided targeted resources on key CS career paths - such as **Software Engineering**, **Cybersecurity**, **Data Analysis**, and **Machine Learning** - empowering participants with practical industry insights.
- Fostered partnerships with industry leads (e.g., CBRE) and university professors to coordinate hands-on workshops, seminars, and networking socials across various IT disciplines, and bolstered ACM UTD's mission of delivering cutting-edge professional development opportunities for aspiring tech professionals.

Technical Skills

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

Frameworks: NumPy, React.js, Next.js, Scikit-Learn, PyTorch, Vue.js, Vite.js, Matplot-Lib, Tensorflow

Technologies: Pandas, Git, Git Bash, GitHub, Docker, Docker Containers, PIL, AWS S3, DynamoDB, PostGreSQL