

AARON (WENHAO) WANG

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EDUCATION

Georgia Institute of Technology, College of Computing

Atlanta, Georgia

M.S. in Computer Science

May 2025

B.S. in Computer Science

May 2023

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C / C++, SQL, TypeScript, Bash/Shell scripting

Web & Backend: Spring / Spring Boot, Flask, Node.js, Express.js, RESTful API design, GraphQL

Frontend & BI Tools: React.js, React Native, HTML/CSS, Figma, D3.js, Apache Superset

Database: MySQL, MongoDB, SQLite, Firebase, PostgreSQL, Redis

Cloud & DevOps: Amazon Web Services (EC2, S3, Lambda, EKS), Kubernetes, Docker, Terraform, Jenkins, GitHub Actions, Git

WORKING EXPERIENCE

Software Development Engineer

Nov 2024 – Present

Applications Technology Group (ATG Inc)

Duluth, Georgia

- Collaborated in **Kubernetes**-based deployment workflows, leveraging container orchestration to enhance application reliability and scalability.
- Automated infrastructure provisioning and application deployment using **Terraform**, **Jenkins**, and **GitHub Actions** CI / CD tools.
- Designed, containerized, and deployed **Spring Boot** microservices using **Docker** to ensure consistent and scalable cloud-native backend architecture.
- Implemented **RESTful** APIs with **Spring Boot**, supporting seamless integration with the frontend and distributed systems.
- Integrated **Spring Security** for robust user authentication and role-based access control in cloud environments.

Software Development Engineering Intern

Aug 2023 – Aug 2024

HARRIS Group

Atlanta, Georgia

- Built internal dashboards using **Apache Superset** to visualize production metrics and support real-time decision-making.
- Developed a **web-based** app using **Flask** and **React** to automate the slot-die-coating process, cut 28% in production time, improved 26% in quality, and enhanced image data querying and analysis speed by 20%.
- Designed and deployed a user management system with **React**, **Flask**, **HTML/CSS**, and **MySQL**, enabling a teamwork setting.
- Automated the processes of image data collection, standardization, pre-processing, and defect labeling using **Python**.
- Integrated **ROS** (Robot Operating System) middleware for robotic control and data communication, enhancing coordination between hardware and software components in the production line.

PROJECT EXPERIENCE

Personal Portfolio Website

May 2025 - Present

React, Go, GitHub Actions, ChatGPT API, RAG

- Developed a personal portfolio website with a React-based frontend, deployed via GitHub Pages.
- Implemented a Go backend to handle visitor analytics and perform real-time website security checks.
- Integrated a RAG-based AI assistant powered by the ChatGPT API to answer HR-related questions about my resume.
- Automated CI / CD workflows using GitHub Actions to automate testing, building, and deployment of both frontend and backend.

HealthAI Advisor

Jan 2024 – Apr 2024

React, Flask, ChatGPT API, scikit-learn, RESTful API, HTML/CSS/JavaScript

- Architected and implemented a full-stack health advisory platform with React-based frontend and a secure Flask backend.
- Engineered a supervised machine learning pipeline using scikit-learn to process user health metrics and flag potential risks.
- Designed and deployed a RESTful API for robust client-server communication, with input validation and error handling to enhance system reliability and security.

Task Manager Mobile Application

Aug 2023 – Sep 2023

React Native, Expo Go, Express.js, MongoDB, RESTful API

- Developed a task management app featuring task CRUD, user account operations, and map/calendar event views.
- Designed and implemented an intuitive UI with React Native and Expo Go for a cross-platform mobile experience.
- Built a scalable backend using Express.js and MongoDB to handle API requests and persist user data.