Emily Kang

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EDUCATION

University of Washington **Expected Graduation: December 2025**
B.S. in Computer Science
Relevant Coursework: Machine Learning, Computer Vision, Statistics, Autonomous Robotics, Databases, Systems Programming (C/C++), Distributed Systems (Planned), Data Structures and Algorithms, Computer Security

EXPERIENCE

Software Engineer Intern **June 2025 – September 2025**
UKG Bellevue, WA
- Developed a new integration test suite for the AI agent service, to improve bug catch rate
- Built a shared Git repo that stores reusable workflows for the agent framework, reducing duplication of CI/CD steps
- Enhanced the agent REST tool with detailed HTTP error messages, reducing domain team debugging time and support requests

Software Engineer Intern **June 2024 – September 2024**
Boeing Seattle, WA
- Created a full-stack customer audit app in **Java**, saving 3 hours a month by automating **80%** of the audit and improving accuracy by **40%**; leveraged user input to query over 1 million flight messages
- Used Java, **Spring Boot**, Angular, TypeScript to improved the customer portal and Excel exports for 13 airline customers
- Helped identify flight log issues **20%** faster in a log processor by using **Python** and **Django** to display under-performers

Software Engineer Intern **June 2023 – September 2023**
Boeing Tukwila, WA
- Reduced development time by **10%** for future teams by implementing the new design for the mission data manager
- Collaborated on internal tools in **C++** to aid software development in defense customers and 5 internal teams
- Improved the core configuration framework by **5%** with more robust exception-handling in all services
- Developed **15** automated C++ unit tests to improve code coverage reporting using GMock

PROJECTS

MediaDash | **NextJS, TypeScript, Python, LangChain, Flask, PostgreSQL** | *Link to Demo*
- Led 5 teammates in a hackathon to build an app that recommends entertainment from several social media platforms
- Won the **$500** AI prize representing the most useful and technically challenging AI project
- Designed the user database with Supabase and **PostgreSQL**, implemented REST API calls to the Python backend
- Built 7 frontend pages in **React**, NextJS, TypeScript; integrated user authentication with Clerk

RealChat | **Redis, Socket.IO, Express.js, PostgreSQL, React, TypeScript** | *Link to Repo*
- Developed a real-time chat app with Redis, Socket.IO, Express.js, PostgreSQL, React, and TypeScript
- Built **WebSocket** connections to allow users to interact seamlessly, used **Redis** for in-memory rate-limiting and session management, PostgreSQL to store messages, with JWT and password hashing for user auth
- Deployed to **AWS EC2** with Docker Compose and Nginx to provide clean URLs to users

TwitterBot | **Python, HuggingFace, GCP, AWS** | *Link to Repo* | *Link to Paper*
- Created 8 Twitter bots that post summaries of deep learning research papers; created a pipeline of scripts that generates summaries using Python and Llama, Mistral, Qwen 4B models on HuggingFace
- Managed 2 **GCP** VMs to run the pipelines and an AWS S3 bucket to store over 300 summaries

SKILLS

- **Languages**: Python, TypeScript, JavaScript, SQL, Java, C, C++
- **Frameworks** / **Libraries**: NumPy, React, Redis, Angular, Flask, Spring Boot, Tailwind
- **Tools**: AWS, GCP, Azure, Docker, Git, Maven, Jira