

Robin Kim

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

M.S. and B.S. in Computer Science - Computing Systems Specialization. GPA: 3.81

Aug. 2021 – May 2025

Relevant Coursework: Operating Systems, Computer Networks, High-Performance Computer Architecture

EXPERIENCE

Networking Teaching Assistant

Aug. 2024 – Present

CS 3251 - Georgia Tech

Atlanta, GA

- Guiding 300+ students through computer networking concepts, including error recovery, medium access, routing, flow control, and transport with emphasis on best practice
- Creating programming assignments involving socket programming, TCP, UDP, grading homework assignments and assisting in creation of test materials

DevOps Engineer Intern

May 2024 – Aug. 2024

Cox Enterprises

Sandy Springs, GA

- Spearheaded a transformation in GitHub Enterprise resource governance cutting deployment times for all GitHub related changes by 99% using Terraform, Bash scripts, and Azure Logic App
- Engineered a new modular architecture for storing Terraform Infrastructure as Code from monolithic state Azure Blob Storage to Terraform Cloud workspaces to improve scalability and security
- Automated governance procedures using WebHooks and GitHub Actions to reduce billing by more than 25%

Software Engineering Intern

May 2023 – Aug. 2023

Verint Systems

Alpharetta, GA

- Worked on the Recorder Integration Service team analyzing the health of the service using Datadog
- Defined and created metrics using Java and created unit tests using JUnit and Mockito
- Developed REST API deployed to 1000+ servers for probing the health of the service through synthetic testing and created dashboards encompassing latency, quality, and availability metrics and SLOs

Python Teaching Assistant

Aug. 2022 – May 2023

CS 1301 - Georgia Tech

Atlanta, GA

- Guided 250+ students through programming concepts in Python through daily office hours
- Assisted the professor in creation and testing of course materials and created language syntax mapping guides

RESEARCH

Research Assistant

Aug. 2024 – Present

ANSR Lab - Georgia Tech

Atlanta, GA

- Project part of CaaS (Constellation as a Service) - offering satellites as virtual resources
- Building a satellite Hypervisor enabling multi-tenant guest virtual machines on top of NASA's cFS
- Developing Docker-like lightweight containers runnable on Real-time Operating Systems

Student Researcher

Aug. 2023 – Dec 2023

Automated Algorithm Design VIP - Georgia Tech

Atlanta, GA

- Project about Genetic Algorithms and EMADE (Evolutionary Multi-objective Algorithm Design Engine)
- Led a 7-people subteam building evolving vision models to distinguish x-rays from pneumonia patients

PROJECTS

Satellite Network Simulator | Python, C++, Bash

- Extended the open source satellite simulator Hypatia with capacity simulation functionality
- Simulated the capacity of Starlink LEO (Low Earth Orbit) network to capture bottlenecks in the architecture

Plant Tomodachi | Unity, C#, Firebase, Python, Git

- IOS game capturing plants, incorporating computer vision and GPS data for **Google Student Developer Club**

TECHNICAL SKILLS

Languages: Python, Java, C/C++, C#, Golang, JavaScript, HTML/CSS, SQL, Unix Scripting

Developer Tools: Git, Azure, AWS, Docker, Linux, Terraform, Django, Jira, Confluence, Unity, Wireshark, Datadog