Ricky S. Ho

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EDUCATION

University of Michigan **Ann Arbor, MI**
Bachelor of Science Engineering in Computer Science *(GPA: 3.77)* Expected May 2025

Relevant Coursework: Computer Science Pragmatics, Data Structures and Algorithms, Intro to Computer Security, Intro to Computer Organization, Web Systems, Intro to Operating Systems, Software Engineering, Distributed Systems

SKILLS & CERTIFICATIONS

Programming: (proficient): C++, JavaScript, Python (familiar): C, Java, Node.js, TypeScript, React.js, HTML, CSS
Tools: Git, Vim, gRPC, Protocol Buffers, Wireshark, Linux/Unix, Selenium, Kubernetes
Certifications: Google Computer Science Summer Institute, CodePath Certificate in Advanced Software Engineering, Advanced Java Programming, Building Java Microservices with gRPC, Java Design Patterns: Creational

WORK EXPERIENCE

LinkedIn **Sunnyvale, CA**
Software Engineering Intern - Job2X + Skills-Based Matching May 2024 - August 2024

- Implemented a gRPC inference workflow enabling efficient communication to inference models hosted on a new model serving infrastructure
- Streamlined the onboarding process for Proxima use cases, reducing setup time from 48 hours to under 1 hour

Microsoft **Bellevue, WA**
Explore Intern - Azure Kubernetes Service May 2023 - August 2023

- Developed distributed performance test scripts for measuring stress and latency in the Kubernetes Ingress of Nginx, Istio, Cilium, and Application Gateway for Containers
- Discovered an incompatibility bug with Cilium and the IPAM used by an AKS Managed Add-on

Cars.com **Chicago, IL**
Software Engineering Intern - Conversations June 2022 - August 2022

- Improved visitor lookup matching using Node.js by upgrading same-visitor detection backend logic
- Enhanced app user interface using React.js by fixing numerous UI bugs and restructuring setting forms

University of Michigan **Ann Arbor, MI**
Research Assistant - RHE Laboratory September 2021 - April 2022

- Developed the Android application, flight software, and interface for smart radiation detectors on drones
- Tested compatibility of 3 obstacle avoidance algorithms across 5 Raspberry PI OS builds on a Raspberry Pi 4

PROJECTS

Network File System, built with C++

- Developed a multi-threaded, hierarchical network file server with hierarchical file systems, socket programming, client-server systems, and network protocols

Thread Library, built with C++

- Created a thread library and infrastructure that provides a cpu, thread, mutex, and condition variable interface

Search Engine, built with Python, Hadoop, and Jinja

- Built a scalable search engine using text analysis (tf-idf), link analysis (PageRank), parallel data processing with MapReduce

Instagram Clone, built with JavaScript, Python, React.js, Flask, Jinja, and SQL

- Built an Instagram clone application using client-side dynamic pages, server-side dynamic pages, and a REST API