

Jack Hong

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WORK EXPERIENCE

Flexport

Feb 2023 - Feb 2024

Software Engineer - Java, GraphQL, gRPC, Ruby, Typescript, React, Next.js, Postgres

- Reduced the multi-step label printing process to one click by creating a full-stack flow from scratch, requiring new Java Spring Boot backend service and React user interface.
- Increased the success rate of email scrapers from 40% to 90% by redesigning email scraping. This work reduced cost leakages in invoicing and saved money on each shipment routed to the Amsterdam warehouse. Used datadog alerts for monitoring to prevent future issues with scraping.
- Supported Flexport's integration with TipTop, a supply chain management tool by updating the Ruby backend to read TipTop shipment events and update relevant warehouse milestones. This collaboration reduced data entry overhead on warehouse managers.

Meta

May 2022 - Aug 2022

Software Engineering Intern - Python, Presto

- Introduced monitoring for Ads Machine Learning pipelines by using Python to collect status metrics.
- Improved time to resolution for oncall engineers by surfacing debug information to oncall engineers through Unidash (internal dashboard tool). This information was sourced from the status metrics I collected.
- Used Python multi-threading to optimize metrics collection and updates.

Capital One

Jun 2021 - Aug 2021

Software Engineering Intern - Node.js

- Worked on an all intern team to create a ATM Locator feature in the Capital One banking app.
- Created the node.js backend to support the ATM locator service.

Intel

Nov 2020 - May 2021

DevOps Engineering Intern - Python, C, C++

- Worked on Python testing infrastructure for FPGA and ASIC SSD controller using pytest. This allowed the CI/CD pipeline to run tests on real silicon - FPGAs and ASICs
- Wrote Python code to integrate Green Hills Software Debugger with the CI/CD pipelines to prevent regressions in SSD controller firmware.
- Improved code quality across the Intel Optane group. My work with testing infrastructure prevented regressions by adding additional on device firmware tests.

University of Michigan

Sep 2019 - Dec 2022

Lead Teaching Assistant - C, C++, Javascript

- Created the brand new EECS 370 website & website infrastructure using GitHub pages and actions, now maintained by current staff.
- Oversaw over 800 students each semester in EECS 370, Introduction to Computer Organization
- Led office hours where students learned about C, C++, ARM assembly, virtual memory, caching, and processor pipelines

EDUCATION

University of Michigan, Ann Arbor

Jan 2022 - Dec 2022

Master of Science & Engineering, Computer Science

GPA: 4.00

University of Michigan, Ann Arbor

Sep 2018 - Dec 2021

Bachelor of Science & Engineering, Computer Science

GPA: 3.82

Selected Courses: Natural Language Processing (*Python*), Advanced Compilers (*C++*, *LLVM*), Distributed Systems (*Go*), Parallel Computer Architecture (*Verilog*), Parallel Programming with GPUs (*C++*, *CUDA*), Computer Architecture (*Verilog*), Computer Vision (*Python*), Operating Systems (*C++*), Embedded Systems (*C++*, *ARM*), Technology to Optimize Human Learning (*Python*)