

WORK and PROFESSIONAL EXPERIENCE

Amazon Corporation

Software Development Engineer

New York, NY

Aug 2021 - Present

- Implemented multi-tenant, distributed service for offline ad billing and reporting, utilizing AWS EMR to overcome horizontal and vertical scaling limits, supporting over **3.2M TPS** at peak.
- Designed and led development of proxy service to abstract ad validation and protect sensitive user data, saving **10%** of global revenue in compliance, built using AWS Fargate.
- Responsible for host-migration to latest operating system as part of org-wide security initiative, across **2000+** production hosts, completed **50%** earlier than expected.
- Maintained operation of worldwide advertising attribution, billing, and budgeting pipeline across 12+ services supporting over **\$40MM** monthly revenue, leading security initiatives, hardware optimizations and upgrades, mitigating real-time large-scale outages and leading multiple successful high volume events.
- Mentored **4** new engineers, interns, and apprentices, reviewing project designs, reviewing code, training in operational support, and general onboarding to the team.

Stryker Corporation

Software Development Intern

Kalamazoo, MI

May 2019 - July 2019

- Developed a working prototype of a cross-platform mobile app to configure 100's of IoT medical devices to the same wireless ecosystem, using AngularJS and Ionic.
- Maintained CI/CD via Microsoft Azure to ensure clean builds between our collaborative 5-person global dev team, using Agile Workflow.
- Created a networked system to dynamically generate a mobile UI from HTTP packets sent via WiFi P2P and Bluetooth LE.

Falcon Lakeside Manufacturing

Software Development Intern

Stevensville, MI

May 2018 - August 2018

- Developed Android application to assist categorizing and calculating for purposes of die-casting, delivered 38% earlier than expected, using Android Studio.
- Maintained persistent storage of 80 different metal alloys, using SQLite.
- Conducted design meetings with management team to ensure application met functional and design specifications and requirements.
- Modeled multiple simulations using EKK Capcast software to analyze stresses caused by air pressure, temperature, solidifications, etc.

EDUCATION

University of Michigan

Bachelors of Science in Computer Science
Minor in Climate Engineering

Ann Arbor, MI

2017 - 2021

Relevant Coursework: Operating Systems, Web Systems, Computer Security, Database Management Systems, UI/UX Design, Computer Organization, Data Structures and Algorithms

SKILLS

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|----------|--------------|------------|---------------------------|
| • Java | • JavaScript | • HTML/CSS | • Front-End Development |
| • Scala | • SQL | • React | • Back-End Development |
| • AWS | • GoLang | • Angular | • Full-Stack Development |
| • Spark | • Git | • Vue | • REST Principles |
| • Python | • Bash | • Node.js | • Distributed Systems |
| • C/C++ | • Vim | • Hadoop | • Agile Workflow and SDLC |