

Ahmad Soboh

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EDUCATION

University of Ottawa

Ottawa, ON

Bachelor of Software Engineering; GPA: 3.92/4.00

Graduating Apr 27'

Coursework: Data Structures and Algorithms; Design and Analysis of Algorithms; Discrete Math/Structures; System Design with Java; Object Oriented Programming; Databases; Computer Architecture

PROFESSIONAL EXPERIENCE

Ciena Corporation – Software Engineer Intern

Ottawa, ON | May 25' – Aug 25'

- Performed QA testing and validation of SERDES, SFEC, and DFEC subsystems, identifying defects early and improving verification coverage across NeutrinoX & Neso ASICs
- Designed and implemented a reusable UVM SystemVerilog scoreboard for SERDES, SFEC, and DFEC subsystems, saving 10+ engineering hours/weekly

Ciena Corporation – Software Engineer Intern

Ottawa, ON | Jan 25' – Apr 25'

- Achieved 100% functional coverage on FEC device signals by creating C++ and SystemVerilog/UVM coverage models and analyzing coverage reports in Synopsys VCS
- Built a Python automation script to archive and track nightly regressions, analyzing log histories via shell tools and Git to cut debug time for recurring failures by 25%
- Integrated XPROP with SystemVerilog bind constructs in UVM testbenches to resolve 50+ X-propagation issues and stabilize simulation environments

Ford Motor Company – Software Engineer Intern

Ottawa, ON | Sept 24' – Dec 24'

- Built a vendor defect-tracking platform using React, Node.js, and PostgreSQL to improve supplier QA workflows and reduce defect turnaround by 35%
- Deployed software to 50+ vehicle ECUs and triaged 1,000+ bugs using Jenkins and CAN diagnostic tools

Ford Motor Company – Software Engineer Intern

Ottawa, ON | Jan 24' – Apr 24'

- Improved infotainment module reliability by triaging 200+ bugs and delivering fixes via Jenkins CI/CD pipelines
- Reduced bug resolution time by 20% by developing a beta testing portal using React, Node.js, and the Jira API
- Lead a 30% increase in FordPass app usage improving bug triage; presented results to the Head of Ford Engineering

MASV Inc. – Software Engineer Intern

Ottawa, ON | May 23' – Aug 23'

- Built a full-stack admin site using React, Node.js, and PostgreSQL to accelerate ticket resolution by 25%
- Led CI/CD upgrades using Docker and Git version-control to eliminate merge conflicts and deployment errors
- Delivered production Node.js hotfixes and provided on-call support for enterprise clients

PROJECTS

NetWatch – Distributed Network Monitoring & Alerting System | *Python, FastAPI, Linux, ICMP/TCP Probing, Docker,*

- Built a distributed network monitoring tool performing continuous ICMP/TCP health checks across 200+ nodes to detect latency spikes, packet loss, and downtime
- Implemented backend services in **Python (FastAPI)** for device registration, probe scheduling, and alert routing
- Containerized the system with **Docker** and visualized metrics in **Grafana** for rapid debugging and QA validation

SecureLink – Encrypted IoT Communication Framework | *C/C++, Embedded Linux, MQTT, TLS, OpenSSL, SQLite*

- Developed a lightweight secure messaging framework for IoT devices using **MQTT** with end-to-end **TLS** encryption
- Implemented an embedded Linux client handling message queues, firmware updates, and rotating device certificates

TECHNICAL SKILLS

Languages: TypeScript, SystemVerilog (UVM), Python, Java, C#, C, C++, Kotlin, JavaScript, HTML/CSS

Frameworks: React.js, Next.js, Node.js, Express.js, Django, Spring, Tailwind CSS, Shadcn/Radix UI, JUnit, Bitbucket

Developer Tools: Docker, AWS, Git, Linux, PostgreSQL, MongoDB, Azure DevOps, Azure Databricks, PySpark, CI/CD

Concepts: Frontend, Backend, Fullstack, Game Development, Data Engineering, Data Analysis, DevOps, Cloud Computing, Mobile Development, Database Management, Machine Learning, Artificial Intelligence, Cybersecurity, Design & Verification