

Ahmad Soboh

(+1) 343-987-7790 | ahsoboh@outlook.com | linkedin.com/in/ahmadsoboh

EDUCATION

University of Ottawa

Bachelor of Software Engineering; GPA: 3.92/4.00

Ottawa, ON

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'

- Verified NeutrinoX & Neso ASIC FEC modules using **SystemVerilog** UVM testbenches, to strengthen error-correction reliability in Ciena's 1600G optical systems
- 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

MailFlow – Scalable Email Analytics Platform | *Python, Django, React, PostgreSQL, AWS (EC2, S3)*

- Developed a full-stack web application that tracks, visualizes, and analyzes marketing email metrics in real time.
- Designed RESTful APIs in Django and built interactive React dashboards for over 1M event logs, enabling dynamic filtering and visualization.
- Deployed on AWS using EC2 and S3, improving response times by 50% through optimized scaling and caching.

KineticQueue – Real-Time Event Processing System | *Python, Kafka, Redis, FastAPI, Docker*

- Built a distributed event-streaming pipeline to process and aggregate billions of user activity events per week.
- Implemented Kafka producers and consumers with Redis caching to ensure low-latency message handling.
- Containerized the platform with Docker and integrated Prometheus metrics for real-time throughput monitoring.

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