

AHMAD SOBOH

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EDUCATION

University of Ottawa

Bachelor of Software Engineering: GPA: 3.92/4.00

Ottawa, ON

Graduating April 2027

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

EXPERIENCE

Ciena Corporation – Software Engineer Intern

May 25' – Aug 25'

- Achieved **100%** test coverage on FEC device signals by creating **C++** and **SystemVerilog/UVM coverage models** and analyzing coverage reports in **Synopsys VCS**
- Reduced debug time for recurring failures by **17%** by building a **Python** automation script to archive and track nightly regressions and analyze log histories via shell tools and **Git**
- Integrated XPROP with **SystemVerilog** bind constructs in **UVM testbenches** to resolve **50+** X-propagation issues and stabilize simulation environments

Ciena Corporation – Software Engineer Intern

Jan 25' – Apr 25'

- Tested Ciena's ASIC Chips using SystemVerilog testbenches to strengthen data transmission in 1600G optical system
- Designed and implemented a reusable **UVM** SystemVerilog scoreboard for SERDES, SFEC, and DFEC subsystems
- Developed **C++ tests** to validate FEC behavior, integrating them with **coverage models** to improve test coverage

Ford Motor Company – Software Engineer Intern

Sept 24' – Dec 24'

- Deployed software to **50+** vehicle ECUs using Jenkins pipelines and CAN diagnostic tools
- Triaged **1,000+** production bugs using Jira, helping stabilize infotainment modules before release
- Reduced software repeat defects by **35%** by building a defect-tracking app using **React, Node.js, PostgreSQL**

Ford Motor Company – Software Engineer Intern

Jan 24' – Apr 24'

- Reduced bug resolution time by **20%** by developing a beta testing portal using **React, Node.js**, and the **Jira API**, allowing engineers to match recurring or old errors to previous solutions
- Improved infotainment module reliability by triaging **20+** defects, pinpointing the bugs in the codebase, and delivering clear explanations and fixes through **Jenkins CI/CD** pipelines

MASV Inc. – Software Engineer Intern

May 23' – Aug 23'

- Lowered ticket resolution time by **32%** (20 min → 12 min) by building a full-stack internal admin portal to enable customer support to instantly retrieve user data using **Vue, Node.js, and PostgreSQL**
- Improved CI/CD stability by **Dockerizing** the backend and adding **automated tests** to pull requests, reducing merge conflicts and deployment issues

PROJECTS

playver.ca | *TypeScript, Next.js, Tailwind, Firebase, Vercel*

- Built a pro bono sports-meetup platform helping locals organize sports sessions, currently serving **40+** users
- Engineered real-time backend using **Firebase**, automating SMS reminders and optimizing event sync on **Vercel**

Encrypted - P2P File Sharing Application | *Electron, React, libP2P*

- Designed and developed a decentralized peer-to-peer file-sharing application
- Enabling users to discover peers and securely transfer files across a network using **libP2P**

Crypto Price Alerting Service | *AWS Lambda, API Gateway, DynamoDB, SNS*

- Built a serverless app that monitors cryptocurrency prices and triggers real-time alerts when user targets are hit
- Engineered the backend using **AWS Lambda, DynamoDB** for rule storage, and **SNS** for SMS notifications

TECHNICAL SKILLS

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

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