Saleen Shahriar

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# **EDUCATION**

# University of Waterloo

Waterloo, Ontario

Email: s4shahri@uwaterloo.ca

Candidate for Bachelor of Applied Science - Computer Engineering; GPA: 88.30

Sep 2019 - Present

Achievements: President's Scholarship, Top Quartile Student, Dean's Honours List (2022)

Courses: Data Structures and Algorithms, Systems Programming and Concurrency, Real-Time Operating Systems, Compilers, Embedded Microprocessor Systems, Digital Hardware Systems, Computer Architecture, Computer Networks

# SKILLS SUMMARY

• Languages: C, C++, Verilog, Java, Javascript, Typescript, Python, MATLAB, SQL, HTML/CSS

- Frameworks: Spring, Django, Express, Vue, React, MongoDB, GCP/AWS, Tableau, TensorFlow, Pandas
- Hardware: RTL/FPGA/PCB Design, RISC-V, Intel Quartus, Proteus, Agilent Oscilloscopes and Waveform Generators

### EXPERIENCE

 $\mathbf{Ford}$ 

Oakville, Ontario

Jan 2022 - Apr 2022

- Full-Stack Development: Developed Glovebox, a vehicle fleet management application, with Vue and Spring, using the Model-View-Controller pattern.
- REST APIs: Designed, refactored, and tested Glovebox APIs to obey REST and OpenAPI 2.0 standards.
- Google Cloud Platform: Competed in the Ford Pro Hackathon, by implementing a dead-letter queue on GCP to create a scalable, reliable, server-less messaging service using Cloud Functions, Pub/Sub, and Cloud Monitoring.

Ricoh

Kitchener, Ontario

 $Software\ Development\ Intern$ 

AV Software Engineering Intern

May 2021 - Aug 2021

- **Device Locator**: Consulted RFCs to pioneer the design of and implement a network device locator, using Java, SNMP, and REST APIs. Created documentation for its specifications, limitations, and instructions.
- o Integrated the Device Locator's functionality into Ricoh's device management platform, Streamline NX.
- Developed and specified test cases for QA and testing of Device Locator's integration with Streamline NX.

 $\mathbf{Seismic}$ 

Toronto, Ontario

Software Engineering Intern

Sep - Dec 2020

- Full-Stack Development: Delivered time-sensitive client-requested features for LiveSocial, a production cross-platform full-stack social networking application, using React, Angular, Express, Node, and MongoDB.
- Redesigned the account connections dashboard using the Twitter, LinkedIn, and Facebook Graph APIs.
- Mobile Development: Documented and experimented with the use of BlackBerry Dynamics and Cordova to build password-secured mobile applications for corporate clients.

# Independent Electricity System Operator

Mississauga, Ontario Jan - Apr 2020

 $Operations\ and\ Power\ Systems\ Analyst\ Intern$ 

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- o Data Analysis: Built queries and developed metrics dashboards using SQL, Tableau Prep, and Tableau.
- Automation: Pioneered the automation of time-consuming manual reports using SQL and Excel (VBA scripts and macros), decreasing the preparation time for reports by 90%
- Operational Assessment: Assessed Ontario energy market and power grid operations for NERC and NPCC compliance issues and breaches

#### **PROJECTS**

- Matrix Multiplication Module: Digital Hardware Design, Verilog, Xilinx Vivado, ModelSim, Systolic Arrays
- Real-Time Operating System: Memory Management, Task Scheduling, Inter-Process Communication, ARM Kiel
- Sentiment Classifier: Natural Language Processing, Python, Scikit, NumPy, Pandas, Matplotlib, Flask
- Home Security System: PCB/Circuit Design, Embedded Development, C, Proteus, STM32 Microcontrollers
- Multi-Threaded Web-Crawler: Concurrency (threads, semaphores, mutexes), C, cURL, libxml2, HTTP