Saleen Shahriar

https://saleen.dev Mobile: 647-539-9674

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

Autonomic

Toronto, Ontario

Software Engineering Intern

Jan 2023 - Apr 2023

- o Back-End Development: Developed and maintained back-end IoT services using Spring Boot with Kotlin and Java. Performed security upgrades to remove CVEs. Investigated service bottlenecks, producing a 10x performance improvement. Managed and debugged deployments using Concourse, ArgoCD, and Kubernetes.
- Observability: Developed Prometheus metrics and Grafana dashboards to increase observability into production code performance.

Ford Pro

Oakville, Ontario

Software Engineering Intern

 $Jan\ 2022-Apr\ 2022$

- Full-Stack Development: Developed Glovebox, a vehicle fleet management application, with Vue and Spring, using the Model-View-Controller pattern. Used JUnit, Mockito, and SonarQube to achieve 100% coverage.
- **REST APIs**: Designed APIs to comply with OpenAPI 2.0 standards. Used 42Crunch to ensure secure API design. Began introduction of acceptance testing with Cucumber.

Ricoh

Kitchener, Ontario

Software Engineering Intern

May 2021 - Aug 2021

• **Device Locator**: Pioneered the design of and implemented a network device locator by consulting RFCs and using Java, SNMP, and REST APIs. Created test cases and documented its specifications, limitations, and use.

Seismic LiveSocial

Toronto, Ontario

Software Engineering Intern

Sep 2020 - Dec 2020

- Full-Stack Development: Delivered client-requested features to production for LiveSocial, a white-label enterprise sales engagement product, using React, Angular, Express, Node, and MongoDB.
- Security: Assessed the viability of using Apache Cordova and BlackBerry Dynamics to build secured enterprise mobile applications for clients.

Independent Electricity System Operator

Mississauga, Ontario

Operations and Power Systems Analyst Intern

Jan 2020 - Apr 2020

- o Data Analysis: Built queries and developed metrics dashboards using SQL, Tableau Prep, and Tableau.
- Automation: Automated manual reports using SQL, Excel, and VBA, decreasing report preparation time by 90%.
- Operational Assessment: Assessed Ontario power grid operations for NERC and NPCC compliance.

PROJECTS

- RISC-V Processor: Digital Hardware Design, Verilog, Xilinx Vivado, Pipelining
- Real-Time Operating System: Memory Management, Task Scheduling, Inter-Process Communication, C, 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: Threads, Semaphores, Mutexes, C, cURL, libxml2, HTTP