

MOHAMMAD Al-Shalabi

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SKILLS

Programming Languages: C, C++, Python, Java, JavaScript
Typescript, HTML/CSS, MATLAB, Robot, YAML, XML, VHDL

Software Frameworks: React.js, Vue.js, JavaFX

Containerization: Docker

Database: Oracle, MySQL, SQLite, PostgreSQL, MS SQL

Modeling Tools: UML, Figma, Canva, Multisim, Quartus

IDE's/ Tools: NetBeans, VSCode, Visual Studio, PyCharm

Testing: Postman, Google Test, Junit 5

Operating Systems: Windows, Linux, MacOS

Other Tools: Git, Jira, Visual Paradigm, LaTeX, ChatGPT

• **Software Architect:** Mastery of OOP principles; known for crafting elegant, efficient, and infinitely scalable software solutions that stand the test of time.

• **Testing & Debugging:** Proven track record in testing and debugging, possessing ability to track elusive software bugs. Adept at employing a diverse arsenal of debugging tools and methodologies to ensure robustness and reliability in production environments.

• **Algorithms & Data Structures:** Possessing an unshakable foundation in algorithms and data structures. Experienced in designing and optimizing sleek, lightning-fast algorithms.

EDUCATION

B.Eng. Computer Software Engineering (Co-op) | Ryerson University (TMU)- Toronto, ON

Sept 2020 – Present

- **Program Achievements:** Deans Honors List
- **Courses:** Algorithms & Data Structures, Database Systems, OOP Eng. Analysis & Design, Discrete Math, Computer Organization & Architecture, Advanced Algorithms, Software Design & Architecture, Software Requirement & SPEC, Operating Systems

EXPERIENCE

Dell Technologies | Ottawa, ON

5G Software Developer

September 2022- April 2023

- Spearheaded the development and integration of cutting-edge Layer 2 and Layer 3 features, employing OOP principles, and optimizing algorithms for significant enhancements in 5G radio system efficiency and throughput.
- Collaborated closely with cross-functional teams to ensure seamless interoperability and consistently achieved project milestones, resulting in a robust 5G radio solution and impeccably validated software solutions within a dynamic development landscape.
- Collaborated adeptly with test engineers to create comprehensive unit tests and simulations for rigorous evaluation of Layer 2 & 3.
- Executed implementation, documentation, and rigorous testing of advanced 5G radio technology features and algorithms, emphasizing a strong commitment to quality and performance excellence which involved in-depth performance analysis, integration of cutting-edge components, and optimization efforts, contributing significantly to the core of 5G radio technology development.

Best Buy Mobile | Oakville, ON

Mobile Sales Lead

May 2022 – February 2023

- Conducted thorough interviews & market analysis to craft 12 tailored products, increasing customer satisfaction and sales by 20%.
- Elevated the customer experience by proactively addressing increased concerns with a relentless focus on delighting customers, implementing a streamlined support system that reduced avg. complaint resolution time by 50%, increased Net Promoter Score (NPS) by 15 pts, and ultimately led to a 20% increase in customer retention and widespread positive word-of-mouth referrals.

PROJECTS

Fuel Efficiently

- Developed a desktop application using Python that allows users to easily find the most optimal location to fuel their car.
- Integrated BeautifulSoup4 and geopy library allowing users to determine the most efficient fuel location.
- Developed an algorithm to factor in all the aspects of fueling a car then used a sorting algorithm to find the optimal location.

Indigenous Language Translator

- Utilized TypeScript, Next.js, HTML, React, and Chakra UI to architect and develop a web-based language translation application which empowered users to effortlessly translate between one of five indigenous languages and English.
- Employed MongoDB for the backend to ensure efficient data storage and retrieval. Notably, I integrated an on-screen keyboard to enhance the user experience and simplify text input.

EXTRA CURRICULARS

Ontario Engineering Competition

Jan 2022

- Participated and placed top 5, as a representative of Ryerson University in the 43rd annual Ontario Engineering Competition.

Ryerson Engineering Competition

Nov 2021

- Scored 1st place in the programming section of the Ryerson Engineering Competition