

Naod Dereje

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Skills

Programming C, C#, C++, Java, Python, PHP, SQL, HTML, CSS, JavaScript.

Miscellaneous XAMPP, Node, Express, React, Git, Jira, Jenkins, Gerrit, Bitbucket, Confluence, Android Studio.

Soft Skills Software Development Principles, Agile Development Practices, Problem Solving, Documentation, SCRUM.

Work Experience

Ericsson

Kanata, ON

Systems Developer

May 2021 - Aug 2022

- Developed back-end systems of the Ericsson Indoor Planner (EIP).
- Automated and optimised floor plan data for the web app that was used by more than 100 end users.
- Implemented new AIR 1279 mmWave radio technology, which was used within 2 months of beta testing.
- Increased work productivity of team by 75%, achieved a 4.5/5 average monthly work performance over 16 months.
- **Technical Skills:** Jenkins, Jira, C#, Microsoft Azure, MATLAB, Gerrit, Git, JSON.
- **Soft Skills:** Teamwork, Time Management, Communication, SCRUM, Agile Environment Principles, Software Quality Assurance.

Projects

Ovarian Cancer Risk Predictor

Kingston, ON

Queens University

Sept 2022 - Apr 2023

- Created a survey-based machine learning algorithm that accurately predicted risk of ovarian cancer.
- Trained on over 100 datasets from both the NHIS and PLCO.
- Survey was showcased to over 200 Engineering Students and provided a 98% accuracy during testing and training.
- **Technical Skills:** React.js, Flask, Python, Firebase, Pytorch, GitHub.
- **Soft Skills:** Team Management, Teamwork, Presentation skills, Report writing.

Hyperloop Control Systems

Kingston, ON

Queens Hyperloop Design Team

Oct 2019 - Apr 2021

- Main codebase that was used to monitor and determine the state of the Hyperloop pod.
- Code was contributed to by up to 10 control systems members at a time, utilizing hardware and radios to remotely communicate with the pod.
- **Technical Skills:** C++, Python, JavaScript, HTML, Arduino, C, CSS, Node.js, Express.js
- **Soft Skills:** Leadership, Teamwork, Logical Thinking.

Odometry System

Kingston, ON

Queens VEX U Robotics Design Team

Oct 2019 - Apr 2020

- Created a new odometry system for the 24" VEX robot that tracked distance travelled within +/- 1.8 cm.
- Code was created with help of PROS API system that is used for the main microprocessor of the robot.
- **Technical Skills:** C++, C, PROS API, Trigonometry, Spatial Geometry
- **Soft Skills:** Critical Thinking, Collaborative Ideation, Logical Thinking.

Education

Queens University

Kingston, ON

B.A.Sc - Computer Engineering

Sept 2018 - Apr 2023

- Cumulative GPA – 3.25
- **Courses:** Data Structures, Algorithms, Object Oriented Programming, Operating Systems, Software Development Principles, Artificial Intelligence, Machine Learning, Engineering Design and Practice
- 1 of 50 students selected as a part of the Innovation and Entrepreneurship stream.
- Mentorship Executive of the NSBE Chapter at Queen's.
- Logistics Director of Queen's Software Development Club.

Achievements

2019 **Churchill First Generation Admission Award**, Queens University

Kingston, ON

2018 **Ontario Scholar**, Ontario Ministry of Education

Toronto, ON

References available upon request.