

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.