Benjamin Probst

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Education

Computer Engineering, Queen's University, Kingston, Ontario   September 2021 – Present

C, Java, Python, VHDL, Assembly, PCB, FPGA, Linux, Git, 3D CAD, Circuit Design, Hardware

- Bachelor of Applied Science – expected graduation date: April 2026
- Notable Coursework: Operating Systems, Object-Oriented Programming, Digital Systems, Computer Architecture, Data Structures, Algorithms, Computer Networks, Embedded Systems.

Experience

DevOps Developer, IBM Canada Ltd. Markham, Ontario   January 2024 – Present

Ansible, Kubernetes, Docker, Bash, Server Administration, Linux, REST API, Git

- Developed and implemented Ansible playbooks that are regularly deployed to hundreds of servers and Kubernetes clusters. These playbooks have significantly reduced development time and lowered costs, enhancing the efficiency of our server management processes.
- Utilized application performance monitoring tools to create actionable alerts with reduced false positives and improved discovery, monitoring, tracing, and root cause analysis, providing valuable feedback that has freed up the DevOps team to focus on core tasks.
- Implemented a server provisioning strategy that allows suspended billing on servers when they are not in use. This approach has resulted in substantial cost savings of approximately $200,000 per year for the team, contributing to more efficient resource allocation.

Software Developer, Midtown Drywall Ltd. Toronto, Ontario   May 2023 – Present

JavaScript, Go, Sqlite, HTML, CSS, Git

- Developed a comprehensive application for ordering prefabricated drywall, significantly enhancing operational efficiency and reducing errors. The application streamlines the order submission process and provides robust order tracking capabilities.
- Designed and implemented an intuitive user interface, integrated with external devices, and ensured secure and efficient management of user data and order information.

QA Technician, Terrapex Environmental Ltd. Toronto, Ontario   May 2022 – August 2022

Written Documentation, Quality Assurance, Consulting, Project Development

- Performed quality assurance tests on building materials and inspected work executed by contractors to ensure adherence to engineering standards.
- Produced professionally crafted reports that served as critical assessments of the work performed, aiding in decision-making processes, and contributing to the overall project quality.

Projects & Extracurriculars

Rover Wheel Control System, Queen's Space Engineering Team   October 2022 – Present

C++, ROS, Linux-Ubuntu, Bash, Git

- Researched and developed a sophisticated drive and wheel control system. This system featured a proportional-integral-derivative (PID) controller, enabling precise tuning of motor speeds based on the terrain, enhancing the rover's performance in varying conditions.

Tool Sharing App, Queen's Engineering Society   September 2023 – April 2024

Flutter/Dart, Firebase, Git

- Developed a cross-platform tool sharing app. Neighbors can streamline resource sharing, foster connections, and contribute to a sustainable community. Designed and implemented an intuitive user interface and ensured secure and efficient management of user data and tool information.