

Priyansh Shah

Incoming Software Engineer Graduate

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EXPERIENCE

GENERAL DYNAMICS MISSION SYSTEMS - CANADA | SOFTWARE ENGINEER CO-OP

September 2020 – August 2021, May 2022 - August 2022 | Ottawa, ON

- Contributed to the design, development, and delivery of the mission software on-board the CP-140 Aurora long-range patrol aircraft operated by the Royal Canadian Air Force.
- Applied an acceptance test-driven development approach to contribute to all parts of the software development process, including testing software features for the product in an **agile** development team.
- Researched methods to speed up software build times in addition to automating tedious components of the development process. 80% reduction in build times were observed.
- Reduced **Robot** test failure rate by approximately 40%. Wrote automated acceptance, integration, and regression tests and assisted in maintenance of a suite of over 4800 automated tests with **CI Jenkins** pipelines.
- Designed, created, and deployed an internal web application with **Docker** and **Kubernetes** to remotely toggle hardware power switches. Created with an **Angular** front-end using **SNMP** to facilitate back-end **NodeJS** server requests.

MCMASTER SOFTWARE ENGINEERING SOCIETY | PRESIDENT

April 2020 – Present | Hamilton, ON

- Organized events for fellow students enrolled in Software Engineering whilst managing logistics for creating experiences that enhance student lifestyle.
- Created marketing graphics and promoted events to student body to ensure reach and turnout while managing club finances to ensure financial stability.
- Managed, designed, and maintained the club website.

PROJECTS

INTERVR | C#, OCULUS SDK, IBM WATSON

2020 | Github, Devpost

- Created a **VR** application that helps users prepare for interview-like scenarios.
- Written in **C#** and used **Unity** to create the VR environment with **Oculus** Rift.
- Provided real-time feedback and statistics using **IBM Watson** speech recognition API.

CARGO NO-GO | C#, PYTHON, MATLAB

2019 | Github, Devpost

- Built a program with a small team that consisted of a GUI, simulator and data parser that automated truck theft detection for trucking company Canada Cartage.
- Utilized **MATLAB** and **Python** to process, plot and update large amounts of data and **C#** to create a functional and clean user interface.

MEATUPS | ANDROID, JAVA, GOOGLE MAPS

2018 | Github, Devpost

- Created an **Android** application that allows users to meet each other based on their food preferences.
- Developed in **Android Studio** using **Google Maps API**, **Java** and **XML**.
- Application website created with **HTML** and **CSS**.

SKILLS

PROGRAMMING

Proficient:

C# • C • Python • Java • HTML • CSS • Ada

Experienced:

Shell • $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ • JavaScript • TypeScript

Familiar:

Go • SQL • Assembly (NASM)

LIBRARIES/Frameworks

Angular • Robot • Unity • SNMP • .NET

TOOLS/PLATFORMS

Git • Unix • Docker • Kubernetes • Jenkins • Android Studio • MATLAB • Autodesk Inventor

APIS

Discord.net • Google Maps • Fitbit • Oculus • IBM Watson

EDUCATION

MCMASTER UNIVERSITY

BACHELOR'S IN SOFTWARE ENGINEERING

April 2023 | Hamilton, ON

Computing and Software

cGPA: 3.5 / 4.0

- Enrolled in the Software Engineering Co-op program.
- On the dean's list for maintaining a grade-point average above 9.5 on a 12-point scale.
- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Computer Architecture, Software Design, Databases, Software Testing, Project Management