

Aadhyaaa Mashru

226-978-2869 | amashru@uwaterloo.ca | [LinkedIn](#) | [Github](#)

EDUCATION

University of Waterloo

Bachelor of Computer Science

Level: 2B, Major GPA: 3.97

Waterloo, ON

September 2022 – April 2027

TECHNICAL SKILLS

Languages: Python, C, C++, Java, Kotlin, TypeScript, JavaScript, CSS, Racket, Swift, LaTeX

Others: Node.js, Express.js, MongoDB, React (MERN Stack), Bootstrap, Firebase, GitHub, MySQL, Xcode, Bash, Tysseract

EXPERIENCE

TwoPlugs

May 2023 - Aug 2023

Web-Developer

Mississauga, ON

- Engineered a highly efficient **Customer Relations Management** Portal using MERN stack
- Enhanced data storage, organization with MongoDB, handling vast customer data, reducing data retrieval times by half.
- Implemented robust user authentication using JWTtokens, and Bcrypt for hashing passwords.
- Streamlined data submission with Multer.js, reducing user input time by and enabling quicker decision-making
- Achieved substantial process optimization, resulting in a **15%** increase in customer satisfaction

PUSH Property Services

Apr 2023 - Dec 2023

Full-Stack Developer — Freelance

Waterloo, Ontario

- Designed a comprehensive website, improving online presence and driving exponential growth in online traffic
- Incorporated an accessible Consumer Management System (CMS), slashing maintenance expenses to **one-third** of the initial costs
- Added interactive features, like a quote request page, resulting in a **40%** boost in lead generation and significant business growth

PROJECTS

JustInTime | Hackathon Winner | TechNova | Kotlin, Java, OpenAI API

Sep 2023

- Teamed up with four developers to create an award-winning hackathon project, an android app enabling **rapid distress calls**, reducing response times by **35%**
- Features **speech-to-text transcription** for user distress communication, converting vocal input into structured textual data.
- Integrated **OpenAI API** to enable **natural language processing** capabilities within the application.
- Implemented data analysis functionality to trigger specific **helpline services** based on distress data.
- Developed a messaging feature for the automated dispatch of **text messages** to designated personal **emergency contacts**, including the user's **real-time location**.

CollConnect

Present

- Developing a common forum to connect with **verified** college students from world renowned universities
- Inspired by the concept of **Blind** - basically a blind for college students
- College students are further grouped by the **courses** they take basis their transcripts so they can answer specific questions of the users
- Enables students to **anonymously** comment about the university/college freely without any hesitation

RAIInet | C++

Dec 2023

- Developed RAIInet where two players compete by pretending to be computer hackers.
- Implemented the **Model-View-Controller** design pattern for clear separation of concerns and maintainability
- Leveraged the **Observer Pattern** for views with Board cells and Player states as subjects
- Employed **templates** for enhanced flexibility and adherence to the **Non-Virtual Interface Idiom** and **Template Pattern**
- This helped to streamline implementation, avoiding the need for separate subjects and observers
- Integrated a high-quality graphical display using **Xwindow** to enhance the user experience in RAIInet.