




# AAYUSH SONI

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## Technical Skills

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**Languages:** Python, Golang, C/C++, HTML/CSS, JavaScript, Typescript

**Frameworks:** ReactJS, Angular, Node.js, Flask, Django,

**Tools:** PostgreSQL, MongoDB, Dgraph, Git/GitHub Jenkins, Docker

## Work Experience

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### Software Developer – Accipiter Radar Technologies

Jan 2022 – April 2022

*Technologies: Python, Golang, TypeScript, Angular, Docker, Jenkins, JavaScript*

*Niagara, Ontario*

- Created a backend **HTTP server** in **Golang** to POST **10K+** requests daily, fetched data from **Dgraph** using DQL and connected Angular's **HTTP client** to display how frequent a vessel went over the speed limit
- Developed a executable **python script** using **PYPDF2** to encrypt paystubs with password protection, which saved the Accounting Department **75+ minutes** bi-weekly and increased productivity by **10%**
- Worked in an **Agile environment** to decrease app failures by **35%** by fixing over **20 bugs** using **Typescript** and **Angular**, improving API request times by up to **90%**

## Relevant Experience

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### Backend Software Developer – Waterloo Rocketry Team

Feb 2022 – Present

*Technologies: Node.js, Express, AWS, Slack, Mocha Chai*

*Waterloo, Ontario*

- Worked on a Slackbot to handle team meetings, commands, and reminders using **Node.js**, **Express**, and **AWS**
- Designed our Slackbot to use **AWS Lambda Functions** to listen to **HTTP requests** made by Slack and other APIs to create custom responses, and utilized **GitHub Actions** for automatic deployment to AWS

## Projects

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### Expense Tracker | *Node.js, Express, Postman, MongoDB, React*

- Created **CRUD** an app to keep track of expenses by calculating the difference between entered income and expenses
- Utilized **MongoDB** to keep track expenses and tested API Endpoints through **Postman** by sending POST requests
- Designed UI using React/JavaScript, implemented **React Hooks** to make code **37%** more efficient and used **Express API** to connect backend and monitor the transactions made by a user

### Personal Blog | *Python, Flask, Bootstrap, PostgreSQL, Heroku*

- Developed a **CRUD** blogging app with **65+ users** which allows them to gain insight on technological advancements
- Created back-end with **Flask** and used **POST** requests to send information from the login form to the **server**
- Utilized the **PostgreSQL database** to store user information, blog posts, comments and hosted blog on Heroku

### Talk-a-Tive | *Nextjs, Firebase, Vercel*

- Develop a **real-time chat** application with **45+ users** which allows them to chat simultaneously with low latency
- Integrated **React Firebase Hooks** to perform authentication via Google OAuth and store information and deployed on **Vercel**

### Tic Tac Toe | *C/C++, Ev3 Robot*

- Built a physical Robot using the **EV3 Mindstorm & Lego** to have the Robot play Tic Tac Toe against a player
- Created a rotate function to make Robots 90° turn smooth to increase **accuracy by 58%** and reduce errors by **76%**

## Education

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### University Of Waterloo

Sept. 2021 – April 2026

*Candidate of Bachelor of Applied Science in **Mechatronics Engineering***

*Waterloo, ON*

- Relevant Courses:** Digital Computation(C/C++), Data Structures and Algorithms
- Cumulative GPA:** 3.90/4

## Interests

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Garba(Gujarati traditional dance), Tabla Player(Indian classical instrument), Hockey, Crypto, Programming