AAYUSH SONI

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Technical Skills

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

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 data
- Performed **test-driven development** by writing unit tests for existing APIs using Python Unittest with Selenium, increasing code coverage by **27**%
- Utilized Jenkins to provide a **continuous integration** service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.
- Worked in an Agile environment to decrease app failures by 65% by fixing over 40 bugs, improving API request times by up to 90%

Relevant Experience

Backend Software Developer - Waterloo Rocketry Team

Jan 2022 - Present

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

Waterloo, Ontario

- Worked on a Slackbot to handle team meetings, commands, and remainders 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
- Created new and modified existing integration tests with Mocha and Chai to ensure correctly functioning code

Projects

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

Tic Tac Toe | C, Ev3 Robot

- Built a physical Robot using the EV3 Mindstorm & Lego to have the Robot play Tic Tac Toe against a player
- Implemented **object-oriented programming** practices to create a **minmax** algorithm to ensure the player never wins
- Created a rotate function to make Robots 90° turn smooth to increase accuracy by 58% and reduce errors by 76%
- Managed and led a team of 6 by working in a Agile Environment and portraying strong collaboration skills

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

- Developed a CRUD application using REST API to allows users 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
- Implemented OOP practices such as inheritance to create the login, register, and comment form on the blog
- Utilized the PostgreSQL database to store user information, blog posts, comments and hosted blog on Heroku
- Designed a user-friendly interface using HTML5/CSS and JavaScript to ensure simplicity and positive user experience

Education

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

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