

SHREY PATEL

Software Engineer | Computer Science @ University of Waterloo

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Skills

Languages JavaScript (ES6) • Python • C • C++ • SQL • Bash Scripting • Scheme • HTML • CSS • Git
Technologies Linux • Node.js • Express • EJS • REST API • MongoDB • GCP • Docker • Kubernetes • Agile • Jira

Experience

WatFriends | Full Stack Software Developer

Waterloo | Jan 2021 - Present

- Working in a 6-member cross-functional team to develop a web app that gives students a platform to connect.
- Developing dynamic web pages using **Node/Express/EJS** to display data fetched from **MongoDB**.

NCR Corporation | Performance Engineer

Waterloo | May - Sep 2020

- Worked in an **Agile** environment to run load tests, analyze results and implement code fixes to resolve bugs.
- Oversaw the testing of a containerized **Kubernetes** application on local and **GCP** servers using **Jmeter**.
- Reduced testing time by **33%** through developing a **stepping thread model** for web banking interfaces.
- Decreased application start-time by **87.5%** through upgrading server OS and reconfiguring **HTTPS** endpoints.

Elevation Academics | Computer Science Tutor

Sep - Dec 2020

- Tutored university students on the fundamentals of programming and various problem solving techniques.

Projects

Lyft | Social Media Web App

[Github Repo](#)

- Developed a full-stack web app made with **Node/Express/MongoDB** where users review fitness gyms.
- Integrated **Passport.js** to authenticate users and **Mapbox API** to map gyms across North America.
- Built a **RESTful API** to perform **CRUD** operations for users, gyms, comments and reviews.
- Designed a responsive front-end using the **Bootstrap 5 CSS** framework.

Virtual-Q | Top 3 @ NCR Global Hackathon

[Demo - Youtube](#)

- Led a team of 5 to create an app that allows for virtual queuing at restaurants and retail stores, **placing 3rd**.
- Incorporated a **Node.js/Python** backend to gather data on users and vendors to be used for data monetization.

ClimateBuddy | Top 5 @ Hackville 2021

[Demo - DevPost](#)

- Utilized **VoiceFlow** to create a Google assistant app to educate students on climate change - deployed on **GCP**.
- Implemented **text-to-speech** functionality on our website to ensure disabled persons can access the platform.

Conway's Game of Life | C++ Project

- Implemented the **observer design pattern** to decrease code run-time by **45%** and automatically update the UI.
- Optimized memory management by designing software modules that conformed to **RAII principles**.

Education

University of Waterloo | Bachelor of Computer Science

Sep 2019 - April 2024

Course Work Data Structures, Algorithm Design, Object-Oriented Programming, Functional Programming

Udemy Web Developer Bootcamp, Python Data Structures and Algorithms, Python Bootcamp

Extracurriculars

FIRST Robotics | Build and Software Team

- Reduced build time of a life-size robot by **50%** through drafting a 3D CAD model for the robot frame.

Gravenhurst Winter Carnival | Executive Council Member

- Fundraised over **\$5500** from local sponsors to **plan and execute** an event for over **17,500** community members.