

# Shivam Patel

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Programmer that really enjoys creating and building new things. Whether it's a simple website or a complex application, the process of solving hard problems and seeing my creations come to life is extremely satisfying.

## RELEVANT SKILLS

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**Computer:** Python, Javascript, React, HTML, CSS, SQL, Ruby, Rails, Cypress, Mocha, Chai, Jest, Storybook, Microservices

**Environments:** Linux, NodeJS, Bash, Vagrant, Git, Powershell, Unix

## WORK EXPERIENCE

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### Mazlite

**Toronto, ON**

*Backend Developer*

*November 2021 – Present*

- Maximized the usage of limited buffers on the camera with optimized Python functions to save data to RAM, resulting in the ability to capture over 5000 images in one instance
- Implemented a highly flexible camera control library with support for multiple cameras through the use of Abstract Factories.
- Researched, architected and implemented a system that uses onboard GPIO pins to takes signals from other robots and interface with commercial PLC boards
- Backend development with Python and FastAPI to create a websocket class that allows the backend to effectively communicate with the front-end
- Implemented the Paho-MQTT library with SSL to bring fast and low bandwidth communication between servers on the cloud and over wireless communications
- Created microservices like heartbeat that can auto send data
- Implemented low level camera functions to time a flash based on a falling edge signal
- Implemented threading to simultaneously capture camera buffers and stream the same buffers to the front-end, using async functions and generators
- Configured linux systems for deployment: netplan, kernel, tcp/ip protocol, BMC, BIOS configurations

### TD Securities

**Toronto, ON**

*Operations Developer/Analyst*

*August 2020 - November 2021*

- Reconciled \$2,000,000 worth of lost precious metals in Python (pandas) and Excel
- Utilized RPA software like UiPath to automate operational tasks that saved the team more than 10 hours a week

### MedEssist

**Toronto, ON**

*Junior Full Stack Developer*

*July 2020 – December 2020*

- Built the front-end skeleton in ReactJS and utilized firebase for the backend
- Developed the backend of the vaccine booking platform making functions that follow basic CRUD principals

## PROJECTS

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### Interview Scheduler

[github.com/ShivamP96/scheduler](https://github.com/ShivamP96/scheduler)

*ReactJS App that schedules interviews with full capabilities*

- Front-End: ReactJS, JSX, HTML, CSS, JavaScript
- Back-End: Express, Postgres

### Quick Notes

[github.com/ShivamP96/Quick-Notes](https://github.com/ShivamP96/Quick-Notes)

*Smart To-Do List App that auto categorize items using the Wolfram Alpha API*

- Front-End: ReactJS, JSX, HTML, CSS, JavaScript
- Back-End: Express, Postgres

## EDUCATION

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### Lighthouse Labs

**Toronto, CA**

*Full Stack Web Development Diploma*

*Graduation Date: March 2020*

- Created a variety of projects that showcase different skills in front-end and backend development

### McMaster University

**Hamilton, CA**

*Honours BSc. in Medical and Health Physics (Nuclear)*

*Graduation Date: June 2019*

- Studied Nuclear Physics and high level mathematics and worked on Co-op's with OPG and McMaster Nuclear