

# SHREY PATEL

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## EDUCATION

**University of Waterloo**, Bachelor of Computer Science | Cumulative GPA: **84%**

Sep 2019 – May 2024

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Golang, Java, JavaScript, SQL, HTML/CSS, Bash, Git, R, ~~TeX~~

**Technologies:** Flask, Docker, GCP, Kubernetes, Node, Express, EJS, MongoDB, pandas, NumPy, Matplotlib

## EXPERIENCE

**Achievers** | Incoming Software Engineer Intern

Jan 2022 – Apr 2022

- Joining the Achievers software development team this coming summer to develop python micro services.

**Virtual Robotics Training Academy** | Part Owner & Software Engineer

Mar 2021 – Present

- Stakeholder and Software Engineer** at VRTA, a cloud-based learning management system, with **2,000+ users**.
- With over **\$1,500,000 raised in funding**, VRTA is focusing on growing the digital literacy rate in programming, robotics, automation, and cybersecurity training, and has an **approximate valuation of \$2,200,000+**.
- Accountable for developing new infrastructure, making educational content, and coordinating with clients.
- Previously developed **100+** modules focused on teaching the fundamentals of Python and Java programming.
- Responsible for developing scripts to automate manual tasks, saving **10+ hrs/week** of work for the team.

**TD Canada Trust** | Software Engineer Intern

May 2021 – August 2021

- Competed in an ideation project with **25+** other teams, placed in the **Top 3** and presented to a panel of executives.
- Worked in an **agile environment** to improve and maintain 8 internal financial consolidation applications.
- Designed a solution using **python** to ensure sensitive user data is **encrypted** before being shared with clients.
- Developed and maintained batch scripts to **automate** manual tasks saving the team over **5 hrs/week**.
- Created an in depth on-boarding document for future co-op students, receiving **great feedback** from the team.

**NCR Corporation** | Software Engineer Intern

May 2020 – August 2020

- Competed in a company-wide hackathon, placed in the **Top 3** and received wide-spread recognition for my work.
- Worked on **performance testing** and finding bottlenecks within a **cheque imaging application** using Jmeter.
- Reduced testing time by **150%** through creating a **stepping thread model** for performance testing API endpoints.
- Decreased application start-time by **87.5%** through upgrading server OS and re-configuring HTTPS endpoints.
- Wrote Python scripts using **NumPy and Pandas**, to identify choke points in a containerized Kubernetes app.
- Deployed newest builds in the performance environment using bash scripts, and **maintained SQL databases**.

**First Robotics – Team 6864** | Team Lead

Jan 2019 – June 2019

- Managed a 6-member cross-functional team** and coordinated with developers to build a **human-sized robot**.
- Reduced build time by **200%** through drafting a 3D CAD model for the robot chassis and drive train.

## PROJECTS

**VirtualQ** | Python, Angular, Nativescript, Node, Express

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

**Lyft** | Javascript, Mongodb, Node, Express, Bootstrap, Rest-API

- Developed a full-stack web app made with **Node/Express/MongoDB** where users review fitness gyms.
- Built a **RESTful API from scratch** to perform CRUD operations for users, gyms, comments and reviews.
- Designed a responsive front-end using Bootstrap, and implemented **client-side and server-side data validation**.

**SaleSkraper** | Python, BeautifulSoup4, GCP

- Created a **webscraper** that scrapes desired data from sporting goods websites using the BeautifulSoup library.
- Designed a bot that sends an email using **SMTP** to a gmail account when certain equipment is on sale.