

SHREY PATEL

+1 647-768-3820 | s427pate@uwaterloo.ca | [linkedin.com/in/shrey079](https://www.linkedin.com/in/shrey079) | github.com/shrey079

EDUCATION

University of Waterloo, Bachelor of Computer Science with co-op | GPA: 3.7/4

Expected December 2023

EXPERIENCE

Tesla | (Current) Software Engineer Intern

May 2022 – (Aug 2022)

- Led a project to sync supplier invoices amongst 3 systems, resulting in **100% elimination** of unpaid supplier invoices.
- Designed & implemented custom invoice sync monitoring dashboards from scratch, using C#, .NET, SQL, Batch & Angular.
- Implemented **dynamic rendering & pagination** using AG Grid to reduce server load by as much as **500%**.

Achievers | Software Engineer Intern

Jan 2022 – Apr 2022

- Designed and developed **event driven microservices** using Python, GCP, Docker, K8s, gRPC, Typescript, & NewRelic.
- Improved scheduler throughput by **9500%**, via implementing multiprocessing and batch updates to dispatch jobs.
- Implemented domain-specific error alerts to improve observability on central GraphQL gateway receiving **1M+ reqs/day**.
- Reduced deployment and integration test times by **300%** for several services by implementing multi-stage Docker builds.

TD Bank | Software Engineer Intern

May 2021 – Aug 2021

- Developed features and resolved bugs for financial reporting applications processing data from **15M+** customers.
- Built tool to **encrypt** user data using Pandas, resulting in enhanced user data protection protocols for **100K+ users**.
- Placed **Top 3** in an ideation competition with **50+ teams**, and pitched the idea to a panel of executives.

VRTA | Software Engineer Contractor

May 2021 – Jan 2022

- Improved infrastructure for a platform teaching coding, and robotics to **5K+** students using AWS, Python and React.
- Wrote Python **automation** scripts to generate configuration files, eliminating **10+ hrs/week** of manual work.
- Created **100+** modules that teach programming concepts in Python and Java such as strings, functions, and loops.

NCR Corporation | Software Engineer Intern

May 2020 – Aug 2020

- Found bottlenecks and performance bench-marked a cheque imaging application processing \$1M+ in deposits daily.
- Implemented a stepping thread model for performance testing API endpoints, **reducing testing time by 150%**.
- Placed **Top 5** in a company-wide hackathon with **500+ teams**, and received wide-spread recognition for my work.

First Robotics – Team 6864 | Team Lead

Jan 2019 – Jun 2019

- **Managed a 6-member team**, to design and build a human-sized robot that placed **Top 6** in regional competitions.

PROJECTS

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

- Developed a full-stack web app made with **Node/Express/MongoDB** where users review fitness gyms in their local area.
- Built a **REST 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.

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 NCR's hackathon.
- Wrote a **Node.js/Python backend** to gather data on users and vendors to be used for data monetization.

SaleSkraper | Python, BeautifulSoup4, GCP

- Created a **webscraper** using the BeautifulSoup4 library that scrapes desired data from sporting goods websites.
- Set up a service that sends an email using SMTP to a Gmail account when equipment is on sale.

TECHNICAL SKILLS

Languages: Python, C/C++, Golang, Java, C#, JavaScript, TypeScript, SQL

Technologies: Git, Docker, Kubernetes, AWS, GCP, gRPC, GraphQL, Node, Express, Flask, MongoDB, NumPy, NewRelic