SHREY PATEL

+1 647-768-3820 | s427pate@uwaterloo.ca | 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 | *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.
- Implemented **dynamic rendering & pagination** using AG Grid to reduce server load by as much as **75%.**
- Leveraged parallel execution to reduce processing time by **80%** for console jobs manipulating over 1M+ invoices.
- Designed and implemented custom invoice sync monitoring dashboards from scratch, using C#, .NET, SQL, and Angular.

Achievers | *Software Engineer Intern*   Jan 2022 – Apr 2022
- Designed and developed **event driven microservices** using Python, GCP, Docker, K8s, gRPC, Typescript, and 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 **95%** 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.

Virtual Robotics Training Academy | *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 check 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.

SaleSkrape | *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++, SQL, JavaScript, TypeScript, C#, Golang, Java
Technologies: Git, Docker, K8s, AWS, GCP, GraphQL, Angular, Node, Express, Flask, gRPC, .NET, NewRelic, MongoDB