

SHREY PATEL

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EDUCATION

University of Waterloo, Bachelor of Computer Science with Co-op

April 2024

Courses: Distributed Computing (Java & Scala), Numerical Computation (Python), Object-Oriented Programming (C++)

EXPERIENCE

Census | Software Engineer Intern — Ruby & Vue

May 2023 – Dec 2023

- Created integrations with 3rd-party APIs for data transfer from customer warehouses to 25+ SaaS applications
- Achieved 1st place in a Hackathon by building a machine learning-powered data segmentation and analysis feature
- Developed a custom connector enabling seamless no-code integrations, granting users the freedom to effortlessly connect their data to any desired product, resulting in 100+ successful integrations

GTS Securities | Software Engineer Intern — Python & C++

Jan 2023 – Apr 2023

- Developed and back tested a proprietary trading strategy using C++, analyzing historical market data to construct an accurate order book, identify actionable signals, execute trades, and manage P&L effectively.
- Engineered Python ETL pipelines for firm's finance data, enabling quantitative analysis of positions, profits, and risk
- Automated reconciliation with banks, revealing compliance discrepancies and an unrecognized \$1M+ in positions

Tesla | Software Engineer Intern — C# & Angular

May 2022 – Aug 2022

- Led a backend project to synchronize invoices across distributed systems, eliminating 100% of untracked supplier invoices
- Leveraged parallel execution to reduce processing time by 80% for console jobs manipulating 1M+ invoices
- Oversaw dashboard development, improving oversight, reducing error rates, and expediting invoice reconciliation

Achievers | Software Engineer Intern — Python & React

Jan 2022 – Apr 2022

- Designed an infrastructure transition to a microservices architecture from a monolithic, reducing latency by 50%
- Implemented domain-specific error alerts to improve observability on GraphQL gateway receiving 1M+ requests/day
- Enhanced scheduler throughput by 250% via the implementation of multiprocessing & batch updates for job dispatch

TD Bank | Software Engineer Intern — Java & JavaScript

May 2021 – Aug 2021

- Developed features and resolved bugs for financial reporting applications processing data from 15M+ customers

Virtual Robotics Academy | Software Engineer — Python & React

May 2021 – Jan 2022

- Created a platform teaching over 5000 students python programming and robotics using AWS, Python and React

NCR Corporation | Software Engineering Intern — Java

May 2020 – Aug 2020

- Enhanced a check imaging application handling over \$1M in daily deposits by bench marking and optimizing bottlenecks
- Placed Top 5 out of 500 in a hackathon by developing an application for virtual queuing at restaurants and stores

PROJECTS

Distributed Computing Projects | Java, Scala, Hadoop, Spark, MapReduce, linux

- Engineered and managed the deployment of personalized page rank algorithms to search and rank documents
- Implemented ML algorithms to identify spam emails, leveraging ensemble voting methods to enhance precision
- Created data analysis pipelines to ingest, process, and analyze NYC's Taxi data in real time using Apache Spark Streaming

Gym Lyft | JavaScript, Mongodb, Node, Express, Bootstrap, Rest-API

- Created a full-stack web app using Node.js/Express/MongoDB, allowing users to review fitness gyms in the area
- Developed a REST API from scratch to facilitate CRUD operations for users, gyms, comments, and reviews

SKILLS

Languages: JavaScript, Python, Java, SQL, TypeScript, C#, HTML, CSS, C/C++, Kotlin, Ruby (Ruby on Rails), Scala

Technologies: React, Amazon Web Services, Docker, Kubernetes, Node.js, Git, REST API, Google Cloud Platform, MySQL, PostgreSQL, MongoDB, Angular, .NET, GraphQL, Vue, Express.js, gRPC, Airflow, Hadoop, Spark, Datadog