Ryan Ramroop

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Education

University of Toronto

Toronto, ON

Specialist in Statistics, Data Science & Machine Learning Stream (Co-op)

2020-2025

Relevant Coursework: Software Engineering, Software Architecture, Databases, Machine Learning, DSA

Technical Skills

Languages: Python, Java, C#, HTML, CSS (Tailwind, Less), JavaScript, TypeScript, SQL

Technologies: React, Next.js, Angular, .NET, Node.js, Express, Playwright, PostgreSQL, MSSQL, SQLite, MongoDB

Tools: AWS, Azure, Docker, Git, Jira, Visual Studio, Visual Studio Code

Concepts: APIs (REST), Agile, CI/CD, DevOps, Object Oriented Programming, ETL/ELT

Experience

Computer Talk Technology

Jan 2024 - Apr 2024

Software Developer Intern | Angular, TypeScript, .NET, MSSQL, Playwright, Azure

Toronto, ON

- Contributed to the design, maintenance, and bug-fixing of front-end web applications including implementing components and services as well as modernizing web pages by transitioning from ASPX pages to Angular
- Designed extensive unit and integration test cases for backend services employing MSTest, C# and MSSQL, resolving critical defects prior to release and achieving an overall 94% code coverage
- Leveraged **Playwright**, a **Node.js** end-to-end testing library to enhance and extend a suite of over **300** test cases and improving test efficiency by **25**%, ensuring front-end UI is completely functional and adheres to **WCAG** standards
- Collaborated alongside QA team to build an automated solution to assist them with Solution Validation Testing
 utilizing Playwright, streamlining testing procedures from 8+ hours to 30 minutes and reducing processing time by
 over 93%
- Employed agile development methodologies by having scrum meetings, participating in code reviews, sprint planning, and retrospective meetings, all managed through **Azure DevOps**

Projects

LangChain (Open Source Contributor) | Python, Pandas

Github

- Contributed a large-scale feature to LangChain, a framework for developing applications utilizing LLMs, with 10M+ monthly downloads and powering 50K+ applications
- Designed an output parser which transforms plain text LLM outputs to a Pandas Dataframe

GainzHub | MongoDB, Express, React Native, Node.js, AWS S3, Agile

Github

- Assisted with the development of GainzHub, a mobile fitness tracking app built and designed with MongoDB, Express, React Native, Node and Amazon S3
- Implemented features that include nutrition and workout logging, creating meal and workout plans, tracking BMI & BF% overtime with a social media aspect that allows users to interact with each other

Zoomer | Java, PostgreSQL, MongoDB, Neo4j, Docker, Maven, CI/CD

Github

- Engineered a high-performance **backend API gateway** in **Java**, facilitating microservice communication for a ride-sharing platform, emulating **Uber's** infrastructure
- Created location microservice, using **Neo4j** to store location data and find nearby drivers, trip-info microservice using **PostgreSQL** to handle transactions, schedule trips, and get driver information, as well as a User microservice using **MongoDB** to handle user authentication, and user data storage
- Applied API unit-testing with JUnit, resulting in 98% coverage over all services

CarRental App | ASP.NET, React, Microsoft SQL Server, Stripe

Github

- Designed a full-stack **CRUD** application with payment, allowing users to purchase and manage car rentals
- Developed backend in the .NET framework, which includes creating business logic and data access layers
- Established a data management system using MSSQL to create, manipulate and query data from the database
- Designed user interface with React ensuring a modern and functional design
- Utilized external API Stripe to conduct and manage all payments and checkouts