

Ava Oveisi

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EDUCATION

University of Toronto

2019 – 2024

HBSc Candidate – Computer Science Specialist: Software Engineering Stream (Co-op)

cGPA: 3.84/4.0

TECHNICAL SKILLS

Languages: Java, C, C#, JavaScript, Python, SQL

Tools/Frameworks: ReactJS, Flask, Git, GitHub Actions, Docker, Kubernetes, Springboot, Unix, Selenium, Ranorex

EXPERIENCE

Software Developer Intern | Ceridian

Jan – April 2023

- Contributed to the initial design choices and implementation for transitioning from a monolithic test engine orchestration to a choreography in a **microservices architecture** in a test platform services team
- Implemented a **Kubernetes hosted service** for subscribing to pub/sub frameworks, serving as a communication point between services and as a job-triggering mechanism to manage millions of test execution requests yearly [↗](#)
- Created an end-to-end workflow for **video recording tests** running on Selenium Grid, enabling test engineers in 200+ teams to efficiently review failed UI tests (flowchart: [↗](#))
- Learned and applied Ceridian's MS architecture, including **request/response lifecycle** across layers
- Created CRUD API endpoints in C# within an MVC architecture
- Developed **React** frontend components and logic for UI CRUD operations along with **integration tests** with Cypress

Software Developer | African Impact Initiative

Oct – Dec 2022

- Led the development of an MVP React web app as the main frontend developer to support young underprivileged entrepreneurs
- Built full landing and login page components and translated UI/UX design wireframes into code

Software Developer in Test Intern | Sequent

May 2021 – Jan 2022

- Developed a **CI/CD pipeline** with GitHub Actions to automate the execution of Selenium E2E tests, reducing manual runs for 20+ QAs
- Created automated **C# GUI tests** with Ranorex and **NUnit tests** for desktop applications, extending testing coverage by 8%
- Proposed and implemented a **large-scale refactoring** of UI tests, reducing more than 2.5k methods and 150k lines of code
- Developed a reporting system for QA as a single-page **React dashboard** for real-time visibility of test execution statuses and automation coverage, estimated to save a significant amount of manual reporting during regression [↗](#)

PROJECTS

[↗](#) Amorr – Home Services Marketplace

ReactJS, Python (Flask), SQL

- Created a web marketplace for beauty service providers, using RBAC principles and following Agile workflows in a group of 7
- Worked directly with product owner and external stakeholders via bi-weekly demos to integrate feedback iteratively
- Contributed to the development of a 3-tier architecture that provided separation of database, business, and client logic

[↗](#) MyBnB – MVC for Mock AirBnB

Java Springboot, MySQL, Swagger UI

- Implemented database and major backend business requirements for hosts and customers in a mocked AirBnB application
- Added support operations including reports for insights and a host toolkit that suggests how to gain more customers
- Architected and implemented database schema, added transactions, and stored procedures to ensure atomicity

RESEARCH

Research Scholar | Medical Computer Vision and Robotics (MEDCVR)

Jan – April 2023

- Creating a graphics pipeline to visualize skin lesions and skin flap procedures (OpenGL/Blender)

Research Scholar | Data Science Institute at University of Toronto (DSI)

May – Aug 2022

- Investigated NLP approaches of beam search and noise introduction to generate high-quality and diverse summaries for code snippets