AVA OVEISI

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EDUCATION

University of Toronto   Sep 2019 – Apr 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, Spring Boot, Unix, Ranorex

EXPERIENCE

Frontend Software Developer | *Bentley Systems*   May 2024 – Present
- Proposed and **revamped the Redux store design** to improve state structure for data loading, status tracking, and error handling, enhancing page-specific state management and overall efficiency
- Contributed to boosting **GitHub Actions pipeline** efficiency by >20% by enabling parallel execution of static code analysis and unit tests, and implementing npm package artifact storage for reuse across stages
- Developed a **React-Redux** landing page to display app users under a shared account, showcasing subscription details and options to revoke admin privileges, along with unit and integration tests using **Cypress**

Software Developer Intern | *Ceridian*   Jan – Aug 2023
- Contributed to designing and implementing the transition from a monolithic test engine to a **microservices-based orchestration** within the test platform services team
- Implemented a **Kubernetes service in C#** for subscribing to pub/sub frameworks, facilitating communication between services, and triggering jobs to manage millions of test execution requests annually 🔗
- 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: 🔗)
- Created CRUD API endpoints in **C#** within an MVC architecture and developed corresponding **React** components

Software Developer in Test Intern | *Seequent*   May – Dec 2021
- Developed a **GitHub Actions pipeline** to automate the execution of Selenium E2E tests, reducing manual runs for 20+ QAs
- Created automated **NUnit tests** and **C# GUI tests** with Ranorex for desktop applications, increasing test coverage by 8%
- Proposed and executed a large-scale **UI test refactoring**, eliminating >2.5k methods and 150k lines of code
- Built a single-page **React** dashboard for real-time visibility of test execution statuses and automation coverage, eliminating 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 team of 7
- Collaborated with product owner and stakeholders through bi-weekly demos for iterative feedback

🔗 **MyBnB –** MVC for Mock Airbnb   *Java (Spring Boot), 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 to attract more customers
- Designed and implemented the database schema, transactions, and stored procedures to ensure atomicity

RESEARCH

🔗 **Research Scholar |** *Data Science Institue at University of Toronto*   May – Aug 2022
- Investigated NLP approaches of beam search and noise introduction to generate high-quality and diverse summaries for code snippets

Research Scholar | *Medical Computer Vision and Robotics*   Jan – April 2023
- Created a graphics pipeline to visualize skin lesions and skin flap procedures (OpenGL/Blender)