AVA OVEISI

ava.oveisi@mail.utoronto.ca | LinkedIn: ava-oveisi | Website: *avaove.github.io/eportfolio/* | GitHub: avaove | 289-980-3448

TECHNICAL SKILLS

Languages: JavaScript (ES6), Python, C, C#, Java
Tools/Frameworks/Libraries: ReactJS, Bootstrap, Git/GitHub/Actions, Unix, Bash, Kubernetes, Azure

EDUCATION

University of Toronto   Sept 2019 – Present
- **Specialist**: Computer Science: Software Engineering Stream (Co-op) candidate, B.Sc **(cGPA: 3.91/4.0)**
- **Awards**: Dean's List (2019 - 2021), University of Toronto Scholar, President's Scholar of Excellence Award, Fairfax Award

EXPERIENCE

DevOps/Automation Developer Intern | *Seequent*   May 2021 – Dec 2021
- Created and maintained automated C# tests for desktop applications, extending the testing framework by 8%
- Proposed and executed a large-scale code refactoring of tests, reducing more than 2.5k methods and 150k lines of code
- Developed a CI/CD pipeline in GitHub Actions to automate the run of E2E web tests on virtual machines, replacing the need to run tests manually on local machines for more than 20 QA members

Research Assistant | *Canadian Institute of Theoretical Astrophysics (CITA)*   May 2021 – Present
- Exploring deep learning and computational techniques to model the next generation of smooth 3D dust maps
- Designing and improving neural network architectures trained on noisy simulated dust data by considering the physics involved in interstellar dust with Python and Jupyter Lab
- Presenting research in 2022 Canadian Astronomical Society (CASCA)

Web Developer | *BRIDGE at UofT Scarborough*   Jun 2020 – Aug 2020
- Consulted with local restaurants owners in Scarborough and researched ways to assist in elevating their web functionality to increase business marketing during the pandemic while personalizing their web design to the restaurants interests
- Improved front-end navigation of menus using React and created forms to gather user information through Firebase database

First-Year Learning Community Program Leader | *University of Toronto*   Sept 2020 – June 2021
- Facilitated remote biweekly 2-hour meetings for over 80 Computer Science, Mathematics, and Statistics students
- Proposed and created online workshops focused on academic skills development and career exploration during the pandemic

PROJECTS

Auto-Dashboard (Project as part of internship)   *ReactJS, JavaScript, Zephyr/Jira REST API*
- Developed interactive React dashboard for QA, removing the need to manually report execution statuses and automation coverage, estimated to save hours annually during regression period
- Integrating real-time data visibility by leveraging REST APIs

3D Interstellar Dust Visualizer   *JavaScript, Python, WebGL, ThreeJS*
- Developing an open-source geospatial application that displays a 3D interstellar dust map based on our galaxies dust density data
- Implementing optimized and efficient algorithms to render millions of data points from the Gaia survey in a fast and efficient manner

HomeyBot (Discord Bot)   *Python, Google Cloud Natural Language API, Vision API, Firebase*
- Developed bot for server-wide censoring of inappropriate content and graphic images based on a voting system by managing server activities and preferences through linking to database
- Team won 1st place for Best Connected Device, among 500+ participants

Mock Command-line Shell   *Java, Java Speech API, JUnit*
- Developed bash shell commands with a mock file management system in an agile team of 4 following a scrum model
- Leveraged OOP to create optimized, extendable, and scalable code and followed TDD approach by implementing +100 JUnit tests

EXTRACURRICULAR

Computer Science Undergraduate Research Group | *University of Toronto*   Oct 2019 – Present
- Conducting a literature review by evaluating over 350 papers on efficacy of inverted classroom models alongside professor and peers

Programming & Robotics Design Mentor | *FIRST Robotics Canada*   Oct 2019 – Feb. 2020
- Mentored youth students with problem-solving, Python, and EV3 programming, building, and, troubleshooting Lego robots to meet the *City Shaper* competition by facilitating weekly 4-hour meetings. Received: FIRST Inspiration Award