TOUFIQ CHARANIA

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EDUCATION

Sheridan College — Oakville, ON
Advanced Diploma, Software Development and Network Engineering - *GPA: 3.60 / 4.0* — Jan 2023 - Dec 2025

Brock University — St. Catharines, ON
Bachelor of Arts, Political Science — Sep 2012 - Apr 2017

EXPERIENCE

Evertz Microsystems — Mississauga, ON
Software Design Engineer Intern (Co-Op) - Design Verification Group — Sep 2024 - Dec 2024

- Independently developed and deployed a **Python**-based server health monitoring script using internal **APIs** (**AHTTP** and **ASNMP**) to ensure the reliability of live stream servers
- Reduced manual verification time by streamlining the process of checking server parameters, such as signal presence and output, across 32 live stream server cards, saving hours of manual review
- Created a **Python** script that automated the export of development logs from an internal portal, transforming data into an HR-compliant Excel template, minimizing manual data entry
- Conducted **hardware diagnostics** and repairs, utilizing serial connections (**SSH**) for firmware updates and physical card repairs, including fan replacements
- Conducted BIOS/driver updates, server maintenance, and cable management to ensure smooth server operations
- **Tech Stack**: Python, Git, Bitbucket, Flask

Skill Squirrel — Mississauga, ON
Junior Software Developer (Co-Op) - App Development Team — Jan 2023 - Apr 2023

- Resolved **frontend** issues assigned on **Jira**, primarily focusing on layout and styling problems using **React**, **HTML**, and **CSS**
- Contributed to **backend** fixes, such as resolving issues with the search box functionality, ensuring seamless user interaction
- Conducted thorough code reviews and testing before pushing changes to the branch via **Git**
- Collaborated with senior developers to seek guidance and review completed tasks
- **Tech Stack**: React.js, JavaScript, HTML, CSS, Git, Jira

PROJECTS

brawlr | *Python, OpenCV, Tensorflow, PyTorch, WebRTC, React, Machine Learning, Git*

- Developing an **AI-powered** boxing judge application to analyze significant strikes in real-time using **computer vision and machine learning**
- Implementing **pose estimation** and **motion tracking** with **Python**, **OpenCV**, **Tensorflow**, **PyTorch**, and **WebRTC** to identify punch types and assess their impact
- Designing a **real-time scoring algorithm** to evaluate strikes based on intensity, accuracy, and technique
- Building a **React-based frontend** to provide a user-friendly interface for visualizing strike data and match statistics
- Collaborating with a team to optimize performance and improve the model through iterative testing

Split-It | *Java, JavaFX, File I/O, Password Hashing, Scene Builder, Git*

- Developed a Java-based expense tracking application to efficiently manage and track expenses for multiple users
- Enabled registration/login, expense list creation, user assignment, and individual total calculations
- Built the GUI with JavaFX and Scene Builder across multiple screens
- Secured user login credentials with hashing methods. Ensured a maintainable codebase with the Model-View-Controller architectural pattern.

TECHNICAL SKILLS

Programming Languages:	Java/J2EE, Python, C, C#, .NET, Swift, Kotlin JavaScript, TypeScript, HTML, CSS
Frameworks & Libraries:	Spring Boot, REST API, JUnit, React, Angular, Node.js, Material-UI, PyTorch, OpenCV, Tensorflow, WebRTC
Database Management:	SQL (MySQL, PL/SQL), MongoDB
Software and Tools:	Git, Bitbucket, Jira, IntelliJ, CLion, Eclipse, Visual Studio, VS Code, Azure Data Studio, X-Code, Android Studio, Docker, Jenkins
Cloud Computing:	Amazon Web Services