Aadil H. Dhalla

Canadian/American Citizen | ahdhalla@gmail.com | 647-615-4311 | Linkedin: Aadil Dhalla | Github:AadilHD

Education

Toronto Metropolitan University   **Toronto, Ontario**
BEng in Computer Engineering   Expected Graduation, May 2027
- **Concentrations:** Designing, coding, optimizing, innovating and engineering
- **Relevant Coursework:** Data structures and algorithms (C), object oriented design (java), Electronic Circuits

Skills

- **Programming Languages**: Advanced in C, Python,Java, HTML, JavaScript and CSS
- **Data Analysis**: Experience in processing large datasets, working with CSV files, and performing statistical analysis.
- **Software Tools**: Experienced with GNUPlot for data visualization and version control tools like Git. Also advanced in matlab.

Projects

Weather Trend Analyzer   *Co-Creator*
- **Analyzed global temperature data** using C programming to identify trends, including hottest and coldest years, century-based averages, and monthly temperature variations.
- **Implemented data processing techniques** such as file handling, array manipulation, and CSV parsing to calculate temperature averages, uncertainties, and trends from historical data.
- **Generated statistical reports** with comprehensive insights and created output files for graphical representation using GNUPlot for visual data analysis.

Library Management System — Java, JavaFX, NetBeans   *Co-Creator*
- **Implemented a JavaFX-based GUI** with login, customer, and admin views
- Integrated **role-based access:** Customers could view books and earn points, while Owners could manage inventory and customer records
- **Designed and applied the State Design Pattern** to manage customer loyalty status (Silver, Gold, Platinum) based on point accumulation
- **Created modular and scalable code using object-oriented programming principles** and organized packages for model, state, and data layers

Electronic Arts Software Engineering virtual experience program on Forage - April 2025

- Proposed a **new feature** for the EA Sports College Football and wrote a Feature Proposal describing it to other stakeholders.
- Built a **class diagram and created a header file in C++** with class definitions for each object.
- Patched a **bugfix and optimized** the EA Sports College Football codebase by implementing an improved data structure.

Activities and Leadership

Al - Haadi Madressah   **Vaughan, Ontario** *Grade 9*
Quran Teacher   Current
- Instructed Grade 9 students in Quranic studies, imparting knowledge on recitation, memorization, and understanding of the Quranic teachings.
- Developed tailored lesson plans and educational materials to engage and support students' learning, ensuring a comprehensive understanding of Quranic principles.