(647) 542-2497
Abdulla.binhaji@mail.utoronto.ca

ABDULLA BINHAJI

tenumbra.com
github.com/tenumbra

EMPLOYMENT

WYSIWYG/Vivien Engineer   **CAST Software**   **May 2018 – Current**

- Worked on updating the code base from 32bit to 64bit and ensuring compatibility with other programs and consoles in the lights and design industry
- Helped with implementation of new features such as Rigging Points, Alpha Beam Shadows, NDI Video Sources - all of which involved updating UI and implementing various functions in a 3D space
- Started a suite of automated test features, using Python and AutoIT to implement a software testing environment based on an ever-evolving software with visual aspects that can be easily maintained

App Development, Front End   **ERA: Emergency Response Aid**   **January 2017 - April 2017**

- Created an emergency Android application that can help users get the response they need through their phone, with a simple to use interface made with Android Studio
- Developed with MongoDB to keep track of user information and logins using oAuth, custom database tables to ensure valid key access, APIMedic for medical information, and location tracking
- The application was designed to send information instantly to the nearest hospital, average time for callers in Toronto is 19 seconds, which is now done instantly getting location and information out to the nearest centre

EDUCATION

Mississauga, ON   **University of Toronto**   **September 2014 – Current**

- B.Sc Computer Science Specialist, Mathematics Major, Statistics Minor
- Coursework in: Operating Systems; Databases; Algorithms; Applications of Computer Science; Programming Languages; Computer Architecture; Programming organization; Web Programming
- Focus on Artificial Intelligences, Machine Learning, and Neural Networks

PROJECTS

Impactful Experiences

- **Text Recognition Program** Using various machine learning methods such as linear regression and gradient descent, create a visual program that detects writing with 98% accuracy
- **Formatted Virtual Disk** Implementation of the ext2 file system with tools to modify ext2-format virtual disks
- **Treasure Hunter** Java application combining path finding and graphical user interfaces to create a randomized minigame to seek treasure using a BFS algorithm
- **Marvin Chat Client** Web client that can hold basic conversation including arithmetic response type when connecting to server. Includes profiling and server porting
- **Modern knowledge News** A fully responsive website for news, allowing user creation and submission

ADDITIONAL EXPERIENCE AND AWARDS

Crown Prince Scholarship Program (2012 – 2014): Top 60 student in Bahrain's graduating class of 2014
International Baccalaureate (2012 – 2014): Completed IB with a total of 39/42 points
Scrum Leader (2015 – 2017): Multiple projects completed as the leader of a scrum group, experienced in the Agile development process completed in sprints

Languages

C	Java	CSS
C++	XML	SQL
HTML	Python	Assembly
SML/Prolog	Javascript	Scheme/Racket