Alex Bie

☐ +905 630 8898 • ☑ yabie@uwaterloo.ca ⓒ www.github.com/alexbie98

Skills

Programming Languages: Java, C#, Python, Javascript, C.

Frameworks: Android, Java Swing, Unity, Node.js.

Tools: Eclipse, Android Studio, Linux, Git.

Projects

MTG Card Prices

Companion Android application for popular trading card game

- Developed mobile application to fetch & display card images and price data
- Used Android SDK to implement gallery, search, and watchlist features
- Devised backend with Python and Node.js to supply data to users

Maze Game

3D first-person maze-navigation game

- Programmed game engine capable of simple, textured 3D renders in perspective projection using LWJGL (a low-level OpenGL wrapper for Java)
- o Implemented recursive maze-solving algorithm, random maze generation and collision detection

Car Database

CRUD database application for vehicles

Applied MVC design pattern using Java Swing

Experience

FIRST Robotics Programmer

Burlington, ON

Robert Bateman High School

January-April 2016

- Utilized provided libraries to interface with "RoboRio" robot controller to design control system
- Exposed to engineering evironment as member of school robotics team; dealt with deadlines, bottlenecks, and version control

Crew MemberBurlington, ONHot Wok RestaurantJuly-December 2015

Communicated professionally with co-workers and customers

- Used customer service skills to ensure satisfaction during peak hours
- Education

University of Waterloo

Waterloo, ON

Candidate for Bachelor of Computer Science

September 2016-Present

Awards.....

- Randall J. Howard Entrance Scholarship
- o 3.92 GPA Term Dean's Honours List, Faculty of Mathematics