Ghanan Jeevaretnam

Systems Design Engineering

www.github.com/ghanan-jeeva   jeeva.ghanan@gmail.com   linkedin/in/ghanan-jeeva

SKILLS

Languages: Java, JavaScript, SQL, Python, C++, Arduino

Tools: Visual Studio, PyCharm, NetBeans, Atom, Eclipse

AWARDS

FRC 2018 Worlds Championship Semi-Finalists

FRC 2018 Ontario Provincial Semi-Finalists

FRC 2019 STEMley Cup International Champions

EDUCATION

University of Waterloo
B.A.Sc. **Systems Design Engineering '24**

H.K. Kesavan Legacy Scholarship

UW President's Scholarship

INTERESTS

Tennis, Reading, Programming, Sketching, Soccer, SolidWorks

PROJECTS

EMPLOYEE MANAGEMENT SYSTEM | JAVA   2019

github.com/ghanan-jeeva/Employee-Management-System

- Programmed an **object-oriented** database using a NetBeans-GUI to add, edit, and remove user-inputted employee info
- Persisted user data by **caching user properties to a local file**
- Conducted unit and function testing to ensure quality of EMS

BRICKBREAKER | JAVASCRIPT   2019

github.com/ghanan-jeeva/Brickbreaker

- Developed game using multi-file programming, and object oriented principles while implementing a **physics engine** to consider the collision angles and velocity of the ball

NEED 5 SPEED | PYTHON   2017

https://github.com/ghanan-jeeva/Need5Speed

- Created a 2 player racing game using pygame with a simplistic user interface and object motion functionality

EXPERIENCE

FIRST ROBOTICS STRATEGY & SCOUTING TEAM EXECUTIVE   2019

- Designed structured instructional guides for students on how to collect data resulting in an increase in the accuracy and precision of **data by 40%**
- Managed and led **45+ students** at FRC competitions to collect large amounts of data both accurately and efficiently leading to multiple finals & semi-finals appearances

DATA ENTRY CLERK |CEYCAN LOGISTICS   2019

- Booked appointments for customers requesting delivery of cargo based on the availability of trucks and drivers while allocating extra time for potential setbacks
- Recorded and organized trucking information to a database effectively, resulting in an average **increase in shipments by 15%**