Tamjid Hasin Khan

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EDUCATION

University of California Los Angeles

B.S in Computer Engineering

Graduation Date:

June 17, 2023

University of California Irvine (Ongoing)

Masters in Embedded and Cyber-Physical Systems

Expected Graduation Date:

December 2025

SKILLS

PROGRAMMING

Java
C/C++
C#
Python
Linux
GitHub/GitLab
JS/React Native

SOFTWARE

Virtual Machines
Visual Studio / Visual Studio Code
Scripting
Scrum Software Development
ASP.NET Core (MVC)
SQL Database Management

Hardware

Circuit Design
Motor Drivers
Verilog

PROJECTS

RSLK Project Car
November 2021 – December 2021

- Programmed a RSLK car using Arduino IDE to follow a black track using sensor data.

Web Application for Health and Fitness
February 2022 – March 2022

- Worked in a small team to create a full-stack web application with the following features:
    - Ability to display dynamic data to user by creating graphs for weight/height
    - Ability to upload persisting data from the client to the back-end through user profile creation.
    - Ability to search through server for exercises and workout recommendations.
    - Use of version control using Git.

Python Interpreter
October 2022 - December 2022

- Worked on a python interpreter for a new language according to the specification provided by professor of CS 131 (Programming Languages) called Brewin: a statically typed, strongly typed language that supported first-class functions and lamdas/closures. It also supported basic object creation, with object methods and properties.

Visual Studio Code Extension – OML Alexandria
January 2023 - March 2023

- Worked in a group of six on a VS Code Extension for a Software Engineering class
- Created a VS Code Extension that provides language support for Ontological Modeling Language (OML), a systems engineering language developed by OPENCaesar.
- Language Support features in the form of Code Refactoring, Syntax Highlighting, Goto Definition, etc.
- Also provides visualization of code using UML-like diagrams. Implemented using two different methods: Immediate visualization through Sprotty VS Code, and an OML to UML file converter.

Web Application - YGWeb
September 2023

- Created an ASP.NET Core Web Application for the popular card game Yugioh. The application used a Model-View-Controller design pattern and SQL Database.
- The application allows users to view the full Yugioh card list, from a SQL database that contains over 12,000 records. The card list view uses pagination to limit scrolling and allows filtering options such as filtering by keyword or card type.
- The application allows users to authenticate themselves with standard email and password identities.
- Authenticated users are able to create their own custom Yugioh Decks, save them, and load them as they wish.