Arslan Sadiq

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Education

Stony Brook University | B.S. in Computer Science | September 2015 - May 2019 | Major GPA: 3.78

Skills and Technologies

Java | JavaFX | C | Bash | Python | Javascript | JQuery | MIPS | Firebase | SQL | Linux | Windows | Git | XML | JSON

Coursework

Introduction to Java Programming
Data Structures and Algorithms in Java
Introduction to Software Engineering
Probability and Statistics
Introduction to Logic and Proof
Computer Architecture
Intro to Natural Language Processing

Activities

Science Olympiad | September 2013 - Present

Participated in a number of building events in high school. One of the founders of Stony Brook's Science Olympiad Mentorship Program where we mentor local elementary schools to prepare for their Science Olympiad competitions. Worked on test writing and judging for the "Game On" category where participants complete a goal using the Scratch programming language.

Experience and Projects

Interview Avenue | September 2016 - Present | Research

A progressive web app that helps users find and suggest available internships. Utilizes HTML5, CSS3 and JS for the frontend. JS and JQuery are used for backend. Firebase Database (NoSQL), Google API authentication for login, and Firebase hosting are used. Makes use of browser cache and service workers to allow for online and offline use. Will be used by the Computer Science department and its students. Found at https://interviewavenue.firebaseapp.com/.

BuzzWord | September 2016 - Present

A JavaFX application that is a spinoff of the popular word game "Boggle" where users try to identify as many words as possible from a graph of 16 nodes (4x4 grid) in a given time. FXML and CSS are utilized for the UI design. Javax.json is utilized to create JSON files that store player information.

Minesweeper | October 2016

Replica of the game "Minesweeper". Implemented in MIPS Assembly. Portions of main memory are mapped to each individual cell as a form of MMIO (Memory Mapped IO) to allow data to be shown on the screen. The display operates similarly to a VT100 where ANSI specifies the colors in each node.

Simplified Wireless | June 2016 - August 2016

Part time job in a tech-based store. Dealt with tracking returns, inspecting returned devices for hardware/software issues, and keeping a simple SQL database with Python to hold information on all the returns (name, type, price, date, etc.)

Achievements

National AP Scholar | September 2015
Stony Brook Scholar | Top 10% of incoming freshman class | September 2015
Stony Brook Dean's List | June 2016