

# Arslan Sadiq

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## Education

Stony Brook University | B.S. in  
Computer Science | Expected Year of  
Graduation: May 2019

## Skills

Java | JavaFX | Python | Javascript |  
JQuery | C | MIPS | Firebase | SQL |  
MongoDB | Linux | Windows | Git |  
HTML5 | CSS3 | Latex

## Coursework

Introduction to Java Programming |  
Data Structures and Algorithms in Java  
| Introduction to Software Engineering |  
Probability and Statistics | Introduction  
to Logic and Proof | Digital Design and  
Computer Architecture

## 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. Currently working on  
test writing and judging for the "Game  
On" category where participants  
complete a goal using the Scratch  
programming language.

## Experience and Projects

Intern Web App | September 2016 - Present

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.

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. Javafx.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 damage, and keeping a simple SQL database to hold information on all the returns (name, type, price, date, etc.)

## Achievements

National AP Scholar | September 2015

National Honor Society | September 2013 - June 2015

Stony Brook Scholar | Top 10% of incoming freshman class |  
September 2015

Stony Brook Golden Key International Honor Society | October 2016

Stony Brook Dean's List | June 2016