

Arslan Sadiq

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Education

Stony Brook University

B.S. IN COMPUTER SCIENCE

Stony Brook, NY

Sep. 2015 - May 2019

- Major GPA: 3.77/4.0
- Stony Brook Scholar, Co-founder of Stony Brook Science Olympiad Mentorship program

Experience

iFi

SOFTWARE ENGINEERING INTERN

Summer 2017

- Worked with a small start-up team of engineers and interns on an app for the automation and management of small businesses.
- Developed within the Ionic framework alongside with Firebase Database, Firebase Functions and AngularJS.
- Had an agile environment where the team would have weekly sprints on Jira and scrum meetings.
- Fixed bugs in multiple sections of the application and refactored code.
- Head started a new section of the application responsible for data analytics for the user.
- Implemented upwards of 40 end to end tests for the application using Protractor and Selenium.

Interview Avenue

RESEARCH ASSISTANT

Fall 2016

- A progressive web app that helps users find, suggest, favorite, and hide hundreds of available internships.
- HTML5, CSS3, Javascript, JQuery, Firebase Database, and Google OAuth are used for multiple components of the project.
- Utilizes browser cache and service workers to allow for dynamic and quick offline use for users with bad internet connectivity.
- Will be used by the Computer Science department and its students. Found at <https://interviewavenue.firebaseio.com/>.

Teaching Assistant

COURSE: SOFTWARE ENGINEERING IN JAVA

Fall 2017

- Holding upwards of a dozen lab sessions with 20+ students where the students had to complete a specific programming assignment.
- Have had extensive office hours weekly to help students with their projects, monitored exams, and held test prep sessions.
- Working on a question-answering board to help answer student questions effectively and in a timely manner. Most questions deal with either project specifications or knowledge about Java and software design.

Projects

Image Generator

PROJECT (IN PROGRESS)

Fall 2017

- Creating a machine learning model that will be able to effectively generate new images that the model has never seen before.
- Utilizes a new, innovative model called generative adversarial networks (GANs), specifically the Deep Convolutional GAN (DCGAN).
- Had to implement scripts that correctly prepares the training data such as image scaling, transformations, and partitioning of data.
- Uses Python, Tensorflow, and NumPy to create, train, and test the model.

Unix Shell

PROJECT

Spring 2017

- Implemented a Unix shell that allows the user to enter all commands available in Linux along with proper arguments.
- Commands can also be piped and redirected in multiple ways.
- Utilizes low-level Unix system calls, signal handling, file descriptor manipulation, processes, and robust error checking to offer the feel of a real terminal to the user.
- Improved my debugging (CGDB), unit testing (up to 100 Criterion tests) and software design skills.

Skills

Languages Java • Python • C • Javascript

Frameworks/Technologies JUnit • Criterion • CGDB • Firebase • Bash • SQL • JQuery • NodeJS • Git • JSON • AngularJS

Protractor • Selenium • Tensorflow

Platforms Ubuntu • Windows 10