

Sid Mangalik

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Education

Stony Brook University | Stony Brook, NY

May 2018

Bachelor of Science, Computer Science

GPA: 3.57/4.0

- Member of the select Honors Computer Science program
- Concentration in Human-Computer Interaction

Skills

Programming Languages: [Object Oriented] Java, python, C/C++, JavaScript
[Markup] HTML5, CSS3, jQuery, SQL, LaTeX, JSON, XML
[Other] MIPS Assembly, SML, Prolog, MATLAB, R

Operating Systems: Windows (XP-10), macOS, Linux (GUI/CLI), Android Dev

Projects

Cryptocurrency Miner (2015)

- Java and the Java Swing library.
- Cryptcoin analog for learning about Bitcoin.
- GUI for mining progress, blockchain, and funds.
- Concurrent mining for increased efficiency.
- Used RSA encrypted networking packages.

Jeopardy! Data Visualization (2016)

- Based in d3.js JavaScript visualization library.
- python: numpy, pandas, sklearn, and matplotlib libraries to prepare data with machine learning.
- Dataset was 100,000 Jeopardy! questions from 1982 - 2012 in a .JSON file.

Language Modeler (2017)

- Coded from scratch using python.
- A Natural Language Processing pipeline to tag words that self-evaluated itself.
- Labelled tokens by POS, and PCFG parsing, and n-gram frequencies using several models.

Commissioned Website (2016)

- Used Adobe Dreamweaver, GIMP, HTML 5, CSS 3, jQuery, and JavaScript.
- End product was a focused and minimalist commissioned site for concept artist, Ray Chen. Utilizes responsive and adaptive web design.

Experience

Research Assistant | Stony Brook Dept. of Computer Science, NY

2016 - Present

- Regularly contact and meet with mentoring professor, Dr. Ritwik Banerjee
- Plan out specific goals and a schedule for completing those goals
- Code and implement SVMs that use NLP for classification in Java
- Independently research Machine Learning topics that advance our research paper

Software Engineering Intern | Dell Inc., MA

Summer 2017

- Performed usage and health analytics on Internet of Things servers maintained by Dell
- Implemented a Swagger specification that increased learning speed for Dell API use by 60%
- Identified customer's responses to Dell products using Natural Language Processing

Android Development Intern | Advalent Corporation, MA

Summer 2015

- Wrote the base code of an Android application that would be used internally
- Added functionality for the app to login users and then connect to a SQL backend that pinged subscribers about table updates.
- Followed the Material Design guidelines specified for Android Development