Sid Mangalik

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Education

Stony Brook University | Stony Brook, NY | May 2018
Bachelor of Science, Computer Science | GPA: 3.6/4.0
- Member of the select Honors Computer Science program
- Concentration in Human-Computer Interaction

Skills

Programming Languages:	Object Oriented: Java, python, 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

Language Modeler (2017)
- Coded from scratch using python
- A Natural Language Processing pipeline to tag words that self-evaluated itself
- Labelled tokens by POS, 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
- Utilized responsive and adaptive web design

Jeopardy! Data Visualization (2016)
- Based in d3.js JavaScript visualization library
- python: numpy, pandas, sklearn, and matplot libraries to prepare data with machine learning
- Dataset was 100,000 Jeopardy! questions from 1982 - 2012 in a .JSON file

Cryptocurrency Miner (2015)
- Coded in Java and the Java Swing library
- Cryptcoin analog for learning about Bitcoin
- GUI for tracking progress, blockchain, and funds
- Concurrent mining for increased efficiency
- Used RSA encrypted networking packages

Experience

Stony Brook Dept. of Computer Science, NY | Research Assistant | 2016 - Present
- Independently research Machine Learning topics that advance our research paper
- Code and implement predictive models that use NLP for classification in Java
- Apply relevant knowledge from psychology in forming hypotheses and conclusions
- Regularly contact and meet with mentoring professor, Dr. Ritwik Banerjee

Dell, MA | Data Science Intern | Summer 2017
- Analyzed customer's responses to Dell products using Natural Language Processing
- Performed usage and health analytics on Internet of Things platform maintained by Dell
- Implemented a Swagger specification that increased learning speed for Dell API use by 60%

Advalent Corporation, MA | Android Development Intern | Summer 2015
- Wrote the base code of an Android application to keep employees updated on the database
- Added functionality for the app to login users and then connect to a SQL backend which pinged subscribers about table updates
- Followed the Material Design guidelines specified for Android Development