

# Sid Mangalik

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## Education

Stony Brook University | Stony Brook, NY

May 2018

Bachelor of Science, Computer Science

GPA: 3.65/4.0

- 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

Frameworks: Amazon Web Services (AWS), Docker, React.JS, Angular.JS

## Projects

Cryptocurrency Miner: BitCoin analog using blockchain in Java, mining occurred concurrently for speed  
Language Modeler: NLP Pipeline with python for generating POS tagging, PCFG parsing, and n-grams  
Predator Detection: NLP Research into whether chat participants were predators with StanfordCoreNLP  
LUSId Paper: Paper on NLP Research into the effects of gender on scientific writing with Mallet API  
EZRoomFix: Android app using QR Codes for easy logging of issues to Dell facilities management  
Commissioned Website: Minimalist and responsive website for concept artist Ray Chen  
Shell: CLI that mimics UNIX terminal in C, capable of signal handling and instruction routing/piping  
Jeopardy! Data Visualization: Visualized data since 1982 from the show *Jeopardy!* in d3.js  
GANetflix: Analog for Netflix using SQL, JSPs, and JavaScript used to learn about good database building  
Gerrymandering System: Political web tool in Java, with SQL, ReactJS, Spring Boot, and Leaflet  
Instrument Recognition: Using unsupervised clustering to recognize musical instruments fourier transforms  
DOTA2 Predictor: Coded multiple linear regression and perceptron comparable to an SVM in classification

## Experience

Monitaur, DE | Research Data Scientist

2019-Present

- Wrote the base code of a machine learning model auditing system
- Added functionality for the tool to read in images and run predictions on them using state of the art convolutional neural network architectures
- Built the system around AWS with testing suites implemented over Docker



Capital One, VA | Data Engineer

2018 - Present

- Working on applications using cutting-edge open source frameworks
- Pipelining data for streaming data and CICD.
- Bringing solid experience in emerging and traditional technologies
- Using Java, Python, Spark, AWS, Spring, Pandas, and databases



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%

