# Sid Mangalik

20 John Drive, North Grafton, MA 01536 | 508-762-8390
siddharth.mangalik@stonybrook.edu | linkedin.com/in/sid-mangalik | github.com/smangalik

Looking for internships and employment in fields relevant to Computer Science in either research or industry.
Personal fields of study include: Application Development, Data Science, and Human Cognition.

## 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
- Relevant Courses: Cognitive Psychology, Data Visualization, Analysis of Algorithms, Programming Languages, System Fundamentals, User Interface Development

## Skills

| | |
|---|---|
| Programming Languages: | [Object Oriented] Java, python, JavaScript,  C/C++ |
| | [Markup] HTML5, CSS3, jQuery, XML, LaTeX |
| | [Other] MIPS Assembly, SML, Prolog, MATLAB, R |
| Operating Systems: | Microsoft Windows (XP-10), macOS/OSX, Ubuntu, Android Dev |
| Certifications: | *Artificial Intelligence* from *Udacity.com* (Peter Norvig / Sebastian Thrun) |
| | *Machine Learning* from *Coursera.com* (Andrew Ng) |

## 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)
- d3 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

## Experience

Research Assistant | Stony Brook Dept. of Computer Science, NY                2016 -
- 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

Client Support | Stony Brook Division of Information Technology, NY            2016 -
- Attend reception desk, aid walk in clients, create service tickets
- Field campuswide helpdesk tickets, communicate with users to reach solutions
- Diagnose hardware failures and reimage university machines
- Troubleshoot and remove viruses/malware from student machines

Software Engineering Intern  | Advalent Corporation, MA                        2014 - 2014
- 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 updates in the database.
- Met with superiors and mentors regularly to discuss implementational details
- Followed the Material Design guidelines specified for Android Development

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## Publications

- Research Paper: **Title** (Under the guidance of Dr. Ritwik Banerjee)
  Publication Journal

## Projects contd.

### Language Compiler (2016)

- Used the PLY Library of python which supplied Both lex and yacc tools.
- Wrote a lexer to tokenize input code
- Wrote a parser to form statements from the tokens
- Placed statements in an abstract syntax tree that would then be executed by an interpreter

### Predator Detection (2016)

- Java + Stanford CoreNLP + Princeton WordNet
- Parsed ~100 XML files and extracted features
- From those features linguistic construct tags were generated and analyzed for syntactic structure
- Used thesaural relations for semantic similarity
- Visualized resulting finding with d3 in JavaScript