

Brandon Gottlob

SOFTWARE ENGINEER

(609) 560-8651 | info@bgottlob.com | bgottlob.com | GitHub: bgottlob

Education

New York University, Tandon School of Engineering

New York, NY

MASTER OF SCIENCE IN COMPUTER SCIENCE (IN PROGRESS)

January 2019 - Present

The College of New Jersey (TCNJ)

Ewing, NJ

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINOR IN FINANCE

Class of 2016

Honors: *summa cum laude*, Phi Beta Kappa, Upsilon Pi Epsilon, Phi Kappa Phi

Skills

Programming Languages Ruby, Erlang, Elixir, JavaScript, Java, C, C++, Python, Objective-C, HTML, CSS

Platforms & Tools Bash, Git, AWS, CouchDB, MySQL, OpenMP, Node.js, Selenium, Docker, Vim, GNU/Linux

Professional Experience

Tabula Rasa HealthCare, Inc.

Moorestown, NJ

SOFTWARE ENGINEER, PRODUCT VALIDATION

May 2016 - Present

- Develop cloud-based internal regression test infrastructure and framework used by all product development teams
- Lead validation team for the *MedWise* medication risk mitigation platform, tasked with improving its reliability and quality
- Develop monitoring tools, continuous integration pipelines, and automated test suite using Ruby and Selenium
- Design fault-tolerant system architectures, conduct postmortems, execute production deployments, and perform code reviews
- Diagnose production bugs and triage with product owners and stakeholders

Lehigh University - National Science Foundation Smart Spaces REU Site

Bethlehem, PA

UNDERGRADUATE RESEARCHER

Summer 2015

- Built English command interpreter for a robot to understand various sentence structures and synonyms using Python
- Utilized natural language processing tools and techniques including part-of-speech tagging, semantic similarity graphs, and stemming

Projects

Stock Portfolio Performance Simulator

Fall 2015 - Spring 2016

- Utilized Monte Carlo methods and lognormal price process model to simulate future returns of portfolios from historical prices
- Implemented in C and parallelized for multicore processors using OpenMP

Room Occupancy Detection in TCNJ Library

Fall 2014 - Spring 2015

- Developed passive infrared motion sensor and Bluetooth iBeacon based systems to detect occupants in library group study rooms
- Presented project implementation and findings in ACM Student Research Competition at SIGCSE Conference 2015 in Kansas City, MO

TCNJ Connect Mobile Application

Spring 2013 - Spring 2016

- TCNJ Connect provided students with academic services, event calendars, and emergency services
- Implemented cross-platform database, and created processes and documentation for simple maintenance of app content

Community Involvement

Exercism - Erlang Track Mentor

October 2018 - Present

- Perform code reviews on online, open-source platform to help students write efficient, idiomatic Erlang code

Arch Linux - Official Tester

June 2017 - Present

- Sign off on packages in testing repositories and report bugs to help support Arch's rolling release schedule

Association for Computing Machinery (ACM) - TCNJ Chapter

PRESIDENT (2015 - 2016), VICE PRESIDENT (2014 - 2015)

- Planned weekly meetings, ran computer science departmental events, and organized annual hackathon, HackTCNJ

Awards

- | | |
|------|--|
| 2018 | Winner, Correctness Category , SpawnFest, BEAM-based application development competition |
| 2015 | Inductee , New Jersey Governor's STEM Scholars Program |
| 2013 | Student Research Poster Award , Consortium for Computing Sciences in Colleges (CCSC) Eastern Conference |