Brandon **Gottlob**

Software Engineer

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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

2015 **Inductee**, New Jersey Governor's STEM Scholars Program

2013 **Student Research Poster Award**, Consortium for Computing Sciences in Colleges (CCSC) Eastern Conference