Finn Voichick

WashU BS/MS student, CS & Math · finn.voichick.com

Education

Washington University in St. Louis *(August 2016 – Present)*
- Bachelor of Science in Computer Science *(May 2020)*
  - Second Major in Mathematics, Minor in Philosophy-Neuroscience-Psychology
- Master of Science in Computer Science *(May 2020)*
  - Graduate Certificate in Data Mining and Machine Learning
- GPA: 4.0

Awards
- Antoinette Frances Dames Award for Productive Scholarship in Engineering
- Ernest D. Weiss Junior Award for Academic Excellence
- Valedictorian *(May 2020)*

Notable Classes
- Human-Computer Interaction Methods (A+)
- Programming Systems and Languages (A+)
- Advanced Algorithms (A+)
- Bayesian Methods in Machine Learning (A+)
- Modern Algebra (A)
- Independent Study · Quantum Computing (A+)

Research Experience

Research Assistant, Washington University in St. Louis *(August 2018 – Present)*
- Mentor: Dr. Caitlin Kelleher
- Working to evaluate a new model of API learning
- Developed a logging system for tracking user actions across applications
- Designed and analyzed an experiment that tested developers using an unfamiliar API
- Designing an interface for manually labelling logged data
- Presented a VL/Hcc 2019 poster and planning to submit a paper to VL/Hcc 2020

Research Assistant, QuICS, University of Maryland *(June – August 2019)*
- Mentor: Dr. Andrew Childs
- Studied Haah's algorithm for quantum signal processing decomposition
- Worked to implement, visualize, and speed up the algorithm

Research Assistant, HCII, Carnegie Mellon University *(May – August 2018)*
- Mentor: Dr. Brad Myers
- Studied API design and documentation from the perspective of mental models
- Developed ALABASTER, a Pycharm plugin to be used in conjunction with an API
- Coauthored a VL/Hcc 2019 paper and a CHI 2019 poster

Work Experience

Head TA, Introduction to Parallel and Concurrent Programming *(January 2017 – May 2019)*
- Designed and graded programming homework assignments
- Held weekly office hours
- Scheduled and organized 17 other TAs for 135 students
- Substitute lectured
- Wrote and graded exam questions

Head TA, Introduction to Quantum Computing *(August 2019 – Present)*
- Designing and grading homework assignments
- Holding weekly office hours
- Occasional lecturing

Head TA, Programming Systems and Languages *(January 2020 – Present)*
- Weekly office hours and guidance on course structure

General Programming Experience
- High proficiency in Kotlin and Java, including JUnit and many concurrent programming features
- Proficiency in Python, Git, Gnu/Linux, LaTeX, Html, JavaScript, Sql, C#, C++, Sml, and Matlab
- Familiarity with regex, Racket, Ruby, Php, Css, and Haskell

Activities

Head of Enrichment, Studio Tesla *(September 2016 – Present)*
- Lead the curriculum design for after-school STEM clubs in local underserved middle schools
- Coordinate twenty Enrichment team volunteers across four groups

Lead Developer, BitBrawl Programming Competition *(July 2016 – September 2018)*
- Designed and implemented an AI programming competition for college and high school students