Justin Baum

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EDUCATION

University of South Carolina, Columbia, SC
Bachelor's of Science, Computer Science and Mathematics, May 2021 GPA: 3.94
Mathematics GPA: 4.00 Computer Science GPA: 4.00

EXPERIENCE

Software Engineer Intern NineFX Inc.
August 2018 - Present Columbia, SC
- Make contributions to both open source and private projects.
- Work with a team of developers following Agile Methodology.
- Specialize in Erlang and ReasonML development.

Computer Science Instructor Pen Education
May 2018 - August 2018 Old Tappan, NJ
- Created and led lesson plans for a few students to learn Computer Science.
- Curriculum taught the ins and outs of Java and Python, as well as some talk about P vs. NP and security.

Supplemental Instructor - Calculus 2 University of South Carolina
January 2018 - May 2018 Columbia, SC
- Communicated with professors to build lesson plans that built on class time.
- Led instruction sessions that were founded on the ideologies of the Student Success Center.

Assistant Coach and Counselor CMEK Allstars Inc.
January 2016 - August 2017 Tenafly, NJ
- Followed and enforced procedure while maintaining safety at all times.
- Coached young teams in 2nd-4th grade recreational games.

HONORS & AWARDS

2018 ACM Intercollegiate Programming Challenge Regional Charleston 2nd Place
2017 ACM Intercollegiate Programming Challenge Regional Charleston 3rd Place

PROJECTS

Pycoin
February 2019 - Present
- Implement a cryptocurrency based on the Koblitz curve crytosystem secp256k1(Bitcoin's curve), and SHA256.
- Learn the technical aspects of cryptocurrency and blockchain.

Turing Machines
20 October 2018 - 24 October 2018
- Created a library in Erlang that could run extensible turing machines and other finite state automata.

Graph Theory Library
March 2018 - June 2018
- Wrote data structures and algorithms trying to solve problems such as graph coloring, path-finding, and cartesian product for graphs.

SKILLS

Languages and Tools: Java, Erlang, ReasonML, Python, LaTeX, PHP, C, C++, Assembly(MIPS), HTML, CSS, Javascript, Vi/Vim, Git, Virtualbox, CircleCI, Docker.

INTERESTS

Graph Theory, Cybersecurity, Complexity Theory, Functional Programming