Justin Baum

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Education

University of South Carolina, College of Engineering and Computing   Columbia, SC
Bachelor of Science, Computer Science; Minor in Mathematics   *August 2017 – May 2021*
- Computer Science GPA: 3.93   Overall GPA: 3.81
- Honors: Tau Beta Pi Engineering Honors Society; Pi Mu Epsilon Mathematics Honor Society
- Student Organizations: Women in Computing; Minorities in Computing; Cybersecurity Club

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Experience

Software Engineer, SWE Intern (Aug. 2018 - May 2019)   August 2018 – Present
NineFX, Inc.   *Columbia, SC*
- Expanded features on our flagship products, such as public key authentication and dynamic form rendering
- Assisted with developer onboarding and expanded company testing framework
- Contributed over 45 thousand lines of documented and tested code into three internal projects
- Designed, and tested a unicode normalization library in bs-precis using agile methodologies
- Worked full time during summers, part time while in school, and finished internship in May 2019

Supplemental Instructor Calculus II   January 2018 – May 2018
University of South Carolina, Department of Mathematics   *Columbia, SC*
- Led instruction sections of 10+ undergraduates to help reinforce Calculus II class materials
- Refined technical communication skills by breaking down mathematical concepts into lesson plans

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Personal Projects

Pycoin | *Python, ECC Cryptography, Blockchain*   January 2019 – Present
- A work in progress bitcoin clone demonstrating blockchain technology, that is easy to read and understand

C Interpreter | *C, Haskell, Operating Systems, Programming Language Design*   January 2020 – May 2020
- An interpreter that parses C and runs it on an internal virtual machine, written in Haskell

Open Source Contributions | *CPython, fastecdsa, MongooseIM, bsr-testing, bsr-select & more*   2016 – Present
- Contributed to many libraries, small and large, including the Python programming language

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Extracurricular Activities

President (2020 - Present), Treasurer (2019 - 2020)   October 2017 – Present
Association for Computing Machinery; University of South Carolina Chapter   *Columbia, SC*
- Led the club's organization of the 2019 and 2020 ACM Codeathon, a university wide competition in algorithms and data structures spanning 24 hours
- Collaborate with the executive board for internal affairs and work with the national organization
- Work with local companies and sponsors for hiring USC students from Codeathons
- Organize logistics and funding for competitions like ICPC, including dinner and transportation
- Personal Competitive Success:
    ACM Intercollegiate Programming Competition Regional Charleston | 2017 3rd | 2018 2nd | 2019 2nd

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Skills

Languages: Python, C/C++, Java, Golang, Rust, OCaml, Haskell, shell
Tools: Git, AWS, SQL/NoSQL, Linux, ViM, Tmux, ssh
Interpersonal Strengths: Collaboration, Teamwork, Communication, Solution centered
Interests and Background: Basketball, Graph Theory, Compilers, Elliptic Curve and Lattice algebras