

Justin Baum

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Experience

Software Engineer II

Software Engineer I

Vistar Media

January 2023 – Present

June 2021 – January 2023

Philadelphia, PA

- Retrofitted existing applications to handle authentication with Auth0
- Ported infrastructure deployments from script based Cloudformation to Amazon CDK preventing an entire class of common deploy errors and pre-deploy safeguards
- Automated AWS Cloudwatch Alarm deploys; nearly 400 alarms are configured and tuned autonomously weekly
- Spearheaded research on measuring unique viewership through traditional analysis on currently collected data
- Worked on deprecating Python 2 in all Python services, slimming codebase from compatibility code
- Specced a roadmap and then executed retiring large redundant DynamoDB instances saving \$40k/m

Software Engineer Intern

NineFX, Inc.

August 2018 – May 2021

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 tickets off our pipeline, and would create new tickets when bugs and issues arose
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Education

University of South Carolina, College of Engineering and Computing

Bachelor of Science, Computer Science; Minor in Mathematics

Columbia, SC

August 2017 – May 2021

- Computer Science GPA: 3.94 Overall GPA: 3.80
 - Honors: Pi Mu Epsilon Mathematics Honor Society; Tau Beta Pi Engineering Honor Society
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Personal Projects

Single Board Computer + Minimal Operating System | *KiCad, C, AVR Assembly* December 2021 - December 2022

C-Lite Compiler & Interpreter | *Haskell, Virtual Machine(JVM), Alex(Lex), Happy(Yacc)* January 2020 – May 2020

ECC & NTRU Cryptosystems | *Cryptography, Algebra, Elliptic Curves, Lattices* August 2020 – December 2020

Extracurricular Activities

President (2020 – 2021) | Treasurer (2019 – 2020)

Association for Computing Machinery; University of South Carolina Chapter

October 2017 – May 2021

Columbia, SC

- Led the club's organization of the 2020 and 2021 ACM Codeathons, semesterly university wide competitions in algorithms and data structures spanning 24 hours
 - Organize logistics and funding for competitions like ICPC, including dinner and transportation
 - Personal Competitive Success:
ACM Intercollegiate Programming Contest Regional Charleston | 2017 3rd | 2018 2nd | 2019 2nd | 2020 Coach
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Skills

Tools: Git, Bazel, AWS Suite, Docker

Technical Skills: Scaling, Automation, Cloud Organization

Interpersonal Strengths: Collaboration, Teamwork, Communication, Solution Driven

Interests & Background: Graph Theory, Elliptic Curve & Lattice Algebra, Compilers