Spencer Hamilton
Software Engineer

B.S. Electrical Engineering and Computer Science
University of California, Berkeley
December 2021

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EXPERIENCE

Software Engineer, Intern
Amazon
May 2021 - Aug 2021 - 4 months, Seattle
Designed and implemented an outage scheduling system for online payment processors with DynamoDB, AWS Lambda, CDK, and EventBridge Rules, automatically hiding payment options from customers when a processor is unavailable
Created a mock EventBridge client package with Mockito and Dagger2 to expedite dependency injected unit testing

Front-End Developer
Blum Center for Developing Economies
Aug 2019 - present - 2 years, Berkeley
Developed the website for Big Ideas Contest which increased session duration by 20%, retention by 10% and number of applications by 16%.
Documented processes and automated code generation for content updates to reduce onboarding time of new hires
Designed, created, and deployed the HealthTech CoLab website

Academic Intern
CS61A at UC Berkeley
Feb 2020 - Jul 2020 - 3 months, Berkeley
Created and taught course material on linked lists, trees, macros, iterators/generators, and sorting algorithms

Software Engineer, Intern
Science System Solutions
Jun 2019 - Aug 2019 - 3 months, San Diego
Built a continuous-time integrated drone pathing simulator with Simulink, MSS (hydrodynamic control library), ISB (RF visualization) to automate data set generation in inverse optimal control learning model

Research Assistant
San Diego Supercomputing Center
Jun 2018 - Jul 2019 - 1 year, La Jolla
Simulated quantum molecular interactions with Hartree-Fock approximations and Psi4 on Comet XSEDE cluster to optimize pollution filtration

LEADERSHIP

Innovative Design
VP of Internal Affairs, Web Team Lead
Leading and teaching a team of Web developers using React, Gatsby, and Vue; Planning club events and socials

Industry Knowledge

Product Design
Agile Development
Operating Systems
System Programming
Compilers
Wireframing
Programming Languages
Design Research
Computer Vision

Tools & Technologies

AWS (CloudWatch, Lambda, EventBridge, CDK, Step Functions), Kotlin, TypeScript, React, Three.js, HCD Methods, Machine Learning Models, MATLAB