Joe Broder

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Summary

Full-stack web (MERN) and blockchain developer. Strong Python, Solidity, and JavaScript skills. Proficient with Ethereum, Web3.js, Flask, Qt, MongoDB, SQL, and React.js.

Education

University of California, Berkeley | Junior

B.S. Electrical Engineering and Computer Science (EECS), College of Engineering

Coursework

CS61A- Structure and Interpretation Programs
CS61B- Data Structures
CS61C- Machine Structures
CS70- Discrete Math and Probability Theory
CS161- Computer Security
CS170- Efficient Algorithms and Intractable Problems
CS188- Introduction to Artificial Intelligence

Skills

Technologies:
Ethereum • Blockchain • Web • REST • Mobile
Languages:
Solidity • Python • JavaScript • HTML/CSS • Java • C/C++
Tools:
Web3.js • Truffle • Flask • Qt • Ganache • BootStrap • React.js • Mongo • SQL • Git

Experience

Sutardja Center for Entrepreneurship   *1/20-Present*
Blockchain Xcelerator Fellow
- Providing technical and business plan advisory to entrepreneurs
- Interviewed and Performed due diligence on 20 blockchain startups

Blockchain at Berkeley   *1/19-Present*
Technical Consultant / Chief of Staff
- Completed security audit of cryptocurrency lending platform discovering critical issues relating to use of Docker and user-facing APIs
- Built proof of concept for Ethereum-based publishing platform for academic papers with token incentive mechanism
- Designed, developed, and tested ERC20 token with staking functionality and additional smart contracts using Solidity and Truffle
- Accelerated on-boarding/integration of new recruits into B@B culture
- Taught sessions on MERN stack development to new members

ExtraTech Systems   *6/14-12/14, 6/18-8/18*
Software Engineering Intern
- (2018) Developed a cross platform and responsive mobile client with Qt, C++, and QML to monitor machine data as part of an IoT software suite for OEMs and manufacturers
- (2014) Built a responsive web interface to monitor robotic motor controllers using Angular and Bootstrap

Blue Marble   *12/17-2/18*
Software Engineering Intern
- Developed prototype of web-based platform for non-programmers to build Amazon Alexa skills that run on AWS Lambda
- Built a front-end using Angular, Bootstrap, and JQuery that generates JSON output based on user input
- Coded Python RESTful services using flask that generate Python code for JSON data sent from frontend
- Automated skill submission/registration using additional Python flask services and Selenium

Selected Personal Projects

ZBoard
Full-stack forum software using MongoDB, Flask, React.js, and Bootstrap
- Designed and developed RESTful API wrapper for mongo database, which included image upload and automatic thumbnail generation
- Built responsive web frontend and admin panel interfacing with backend API using React.js, Node, and Bootstrap

Mango Reader
Desktop Kindle-like reader for Japanese "Manga" comics
- Built in C++ with Qt, features include a thumbnail gallery, saving books, and image zoom with kinetic scrolling