

Moses Surumen

www.surumen.com

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github.com/surumen

EDUCATION

University of California, Berkeley

Grad: May 2019

B.Sc. in Electrical Engineering and Computer Science

Coursework

- Introduction to Machine Learning
- Introduction to Artificial Intelligence
- Advanced Algorithms
- Operating Systems and Systems Programming
- Networks Analysis
- Human Centered Design

TECHNICAL SKILLS

Programming Languages and Web Technologies:

Python, Java, JavaScript, C, ES6, Sass, CSS

JavaScript Frameworks and Libraries:

Nodejs, React, Angular, Vue, Redux, Mobx, AJAX, Relay

Web Tools/Services and Databases:

GraphQL, Webpack, Mocha, AWS (DynamoDB, AppSync)

WORK EXPERIENCE

Software Engineer, M-Soma Institute

June-Aug 2018

- Designed a machine learning powered web platform used to tutor students learning to code for the first time
- Designed the GraphQL API for the platform, and integrated it with a React front-end, and an Apollo server

Equity Bank

March '13 - May '14

- Worked in a collaborative team of developers, testers, sales and marketing to launch the bank's first mobile banking platform, EquiTel, that is now used by over 7 million clients
- Worked with the bank's Point of Sales vendors to define system requirements for their machines, and prepared comprehensive reports to the security team to ensure compliance with the banking system security regulations

Computer Science Tutor, UC Berkeley

Sep-Nov 2016

- Conducted one-on-one tutoring for students taking a Data Structures and Algorithms course

PERSONAL PROJECTS

More projects at: www.surumen.com

Mixtape Generator - (Express.js, Echo Nest API, Networkx)

- Built and presented a music recommendation system from a dataset of one million songs with a team of 3
- Designed and developed the user interface that generates similar songs from the one million nodes network

Developer Circles Connect - (React, GraphQL, Relay Modern, AWS AppSync)

- Designed a realtime chat and events app that allows developers to connect with others in their cities
- Wrote unit tests in Jest and Enzyme for the React components

Face Swap - (React, Django, DLib, OpenCV)

- Trained and tested a generative adversarial neural network model to perform unsupervised image swapping
- Developed a Django powered web app that allows users to upload photos and test the model

Book Search - (React Native, Redux, GraphQL, Serverless)

- Developed a React Native mobile app that interacts with the Goodreads API to display info on books and authors
- Implemented multi-user authentication to allow users to get friends updates and create a shared book shelf

News Verifier - (React, Redux, New York Times API)

- Developed a React app that takes user queries and verifies the available credible news on the subject

EXTRA-CURRICULAR ACTIVITIES

Started a non-profit to help students from underprivileged communities get a headstart in computer science.

Awarded the [Resolution Fellowship](#), the MasterCard Foundation Scholarship, and [BigIdeas@Berkeley](#) commendation