Stephen Jayakar

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EDUCATION

UC BERKELEY

BS IN EECS

May 2020 | Berkeley, CA College of Engineering

LONGVIEW HIGH SCHOOL

May 2016 | Longview, TX Valedictorian in I.B. Programme

LINKS

LinkedIn://stephenjayakar GitHub://stephenjayakar Facebook://stephenjayakar

COURSEWORK

* indicates in progress

CS61A: SICP

CS61B: Data Structures

CS61C: Computer Architecture

CS70: Discrete Math & Prob. Theory

CS170: Algorithms

CS162: Operating Systems

CS168: Internet Architecture

CS184: Computer Graphics & Imaging

CS186: Database Systems

CS161*: Computer Security

CS164*: Languages and Compilers

SKILLS

PROGRAMMING

Experienced:

Python • JavaScript (ES6) • Swift Familiar:

Objective-C • PostgreSQL • C++ • C

• GLSL • Java

FRAMEWORKS AND ENVIRONMENTS

React • Graphene + GraphQL • Flask

• SQLAlchemy • Xcode •

React-Native • iOS • Firebase •

OpenGL • Figma • LATEX • Spotify-API

• Bash • Windows • OS X

DESIGN PRINCIPLES

MVC • MVVM •

Container-Component • Ant Design • React Bootstrap • Material Design • Cupertino Design

EXPERIENCE

ZENSOURCER | Full Stack Engineering Contractor

August 2018 | San Francisco, CA

- Rolled out new customer-facing features in the frontend using ES6 and ReactJS, with some supplemental libraries such as Apollo and React Bootstrap.
- Designed GraphQL endpoints using Graphene + Flask after implementing a new database model using PostgreSQL and SQLAlchemy.
- Made some minor modifications to the NodeJS server to update some of the product's Server Side Rendered (SSR) pages.
- Replicated some functionality into the company's Chrome extension which automates loading in possible candidates from LinkedIn.

DOCUSIGN | IOS SOFTWARE ENGINEERING INTERN

May 2018 - July 2018 | San Francisco, CA

- Updated the Objective-C codebase to support iOS 11 features like FaceID.
- Rolled out some specific UI and animation rewrites for iPhone X support.
- Utilized JIRA and Confluence during the Agile development process on the mobile team.
- Coordinated with the API team as well as Product to begin getting the app to conform with Apple Push Notification Service and show app notifications.

MOBILE DEVELOPERS OF BERKELEY | IOS CONTRACT ENGINEER &

TECHNICAL CONSULTANT

Sept 2017 - Present | Berkeley, CA

- Contracted out with startups for app development in the Berkeley area.
- Consulted with MDB internal contracting teams to help structure React, React-Native, and Swift projects as well as optimize their minimal viable product (MVC) descriptions.
- Completed a series of mini-projects to demonstrate Swift proficiency which utilized techniques such as asynchronous database calls and live location monitoring.

PROJECTS

CALNES | PYTHON3 NES EMULATOR

Oct 2017 - Present

- Architected an open-source implementation of the original Nintendo Entertainment System.
- Created a working 6502 CPU that passes most test suites.
- Currently debugging memory layout mapping in regards to Direct Memory Access between the Picture Processing Unit (PPU) and the CPU.

STREAMLINE | Social Music Platform

Oct 2017 - Dec 2017

- Constructed from the ground-up a cross-platform mobile social music experience where users post "stories" of songs to their friends daily.
- Used Agile workflow to manage our team of 7 iOS and Android engineers.
- Utilized Firebase as well as Spotify API extensively to implement our feature set
- Published the app both to Google Play Store as well as Apple's App Store

LOL-TENSORFLOW | GAME PREDICTION MODEL

Mar 2018 - Present

- Designed and implemented a deep neural network using TensorFlow and data from the League of Legends RESTful API.
- Trained on team compositional data on past matches to determine which team would win with approximately 88% certainty.