Kavan Samra

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Recent university graduate seeking full-time position as a Software Engineer. Experienced with both Front-End and Back-End technologies. Based in Los Angeles, CA but open to relocation.

Languages	Frameworks/Libraries	Technologies
• JavaScript	• ReactJS	• Amazon Web Services
• C/C++	• NodeJS and Express	• Google Firebase
• Python	• Vue	• NoSQL Databases
• HTML/CSS	• Pandas	• GraphQL

Education

SEPTEMBER 2017 – DECEMBER 2019
Computer Science B.S – University of California, Santa Cruz

Notable Coursework: Data Structures and Algorithms 1&2, Computer Architecture, Software Engineering 1-3, Artificial Intelligence, Functional Programming Languages, Principles of Computer System Design, Data Wrangling and Web Scraping, Calculus 1-3, Linear Algebra, Probability and Statistics

Projects

HTTP Server – C++

A multithreaded HTTP server built from scratch via Unix system calls and socket programming. Supports concurrent requests from multiple clients by interacting with system resources in a thread-safe manner by using semaphores and mutexes. Allows users to specify number of threads and request logging.

Share Yourself Artists – React.js and NodeJS with AWS

An art-sharing website where users can upload their artwork to be shared with the world. Wrote RESTful API's hosted on a serverless architecture via AWS Lambda. Modeled data schemes in a NoSQL datastore to accelerate API response time and minimize data downloading for clients. Implemented an auto refund system where paying customers receive a refund upon a request that meets the guidelines of the business. Implemented user authentication via AWS Cognito for easy and secure user sign-up/sign-in.

Pokédex – ReactJS and GraphQL Server

A web application providing data on all generations of Pokémon. Built a NodeJS backend running a GraphQL server which exposes a public API allowing for quick and dynamic queries with support for pagination. Frontend built with ReactJS using modern CSS techniques such as CSS Grid and Flexbox.

Startup Analysis – Python Pandas/NumPy and Bokeh

Data analysis and visualization project using data provided by crunchbase.com. Performed numerical analysis on large datasets to answer questions and view trends relating to startups over time. Constructed interactive plots and diagrams using the Python Bokeh plotting library. Answered questions like, "Do industry buzz words in search engine queries tend to lag or precede industry investment?".