Amit Sant

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WORK EXPERIENCE

Mphasis NEXT Labs — *NLP Intern*
Summer 2020
- Built a web scraper for large company websites using a depth-first traversal while filtering out irrelevant information
- Utilized NLP libraries like Spacy locate key information from large amounts of data gathered from company websites

Mission San Jose Elementary Chess Club — *Small Group Tutor*
Fall 2016 - Spring 2019
- Worked in paid and unpaid positions as a tutor for a nationally-renowned youth chess program as a high schooler

EDUCATION

University of California, Berkeley — *Bachelor's in Computer Science & Pre-Business*
August 2019 - May 2023 | GPA: 4.0
- Relevant Courseload: Structure and Interpretation of Computer Programs (Python, LISP, SQL), Designing Information Devices and Systems I and II, Data Structures (Java), Principles of Business, Discrete Mathematics and Probability Theory, Introduction to International Business, Machine Structures (Ongoing)), Concepts of Probability (Ongoing), Multivariable Calculus (Ongoing), Efficient Algorithms and Intractable Problems (Planned; Spring 2021), Introduction to Machine Learning (Planned; Spring 2021)
- Honors and Awards: Dean's List Fall 2019, Honors to Date Fall 2019, Edward Frank Kraft Award for Freshmen

Horizons School of Technology — *Fullstack Development Bootcamp*
Summer 2018
- Developed proficiency in full-stack development using NodeJS with tools including JQuery, ReactJS, and MongoDB through projects including clones of Facebook, Twitter, Amazon, and Yo! as well as developing our own ideas.

Ohlone College — *CS Courses Concurrent with High School*
August 2018 - June 2019 | GPA: 4.0
- Relevant Courseload: Introduction to Programming Using C++, Discrete Structures

PROJECTS

Gitlet — *Basic Implementation of Version-Control System Git*
Spring 2020 | Software: Java
- Implemented all basic git functionality add, rm, log, find, checkout, commit, status, etc
- Developed merge command using depth-first traversals to find the closest common ancestor between two commits and handled creating a new, joint commit with merge conflicts

Lines of Action — *Board Game with an AI Player*
Spring 2020 | Software: Java
- Implemented basic game functionality with legal move and win-condition recognition
- Utilized game trees with alpha-beta pruning and a basic heuristic to build AI Player

Scheme Interpreter — *Scheme(LISP)-to-Python Interpreter*
Fall 2019 | Software: Python
- Implemented conditional logic, functions, and tail-recursive evaluation to improve speed and memory usage

CLI Space Invaders — *The Traditional Arcade Game in the CLI*
Winter 2019 | Software: C++
- Designed and built a full-fledged Space Invaders game using C++ which runs in the CLI

Share My Look — *Fashion App for Freelance Models (Prototype)*
Summer 2018 | Software: Javascript, Node.js, Express.js, MongoDB, Bootstrap, jQuery, HTML/CSS
- Directed a team in backend development using NodeJS, ExpressJS, and MongoDB

Yo! App Clone — *Frontend Development with React Native*
Summer 2018 | Software: Javascript, React Native
- Implemented frontend for a cross-platform implementation of the Yo! app using ReactJS
- Implemented the app's signature pings which send the geographical location of the user

VOLUNTEER EXPERIENCE

Bernie 2020 — *Textbanker*
Winter 2020 - Spring 2020
- Sent tens of thousands of texts to potential voters to gather data about preferences in the 2020 Democratic Primary

MSJE MathCounts/Olympiad — *Classroom Teacher*
Fall 2017 - Spring 2019
- Prepared a class of 15-20 students for various math competitions with weekly classes

High School STEM Success Tutor — *Individual Tutoring*
Fall 2018 - Spring 2019
- Worked one-on-one with a high schooler over the year to help him with Geometry

SKILLS

Python

Java

Javascript

React.js

C++

Node.js

React Native

MongoDB

jQuery

Bootstrap

Scheme (LISP)

SQL

Solidity

Spacy

HTML/CSS

HTML Canvas

R

MATLAB

INTERESTS

Chess

Teaching

Coding

Gaming

Comedy

Reading

LANGUAGES

English (Native)

Spanish

Marathi