Jagpinder Singh

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EDUCATION

UC Berkeley | Bachelor of Arts, Computer Science August 2016 - May 2020

Relevant coursework:

- Structure & Interpretation of Computer Programs
- Computer Architecture and Machine Structures
- Linear Algebra and Differential Equations
- Principles and Techniques of Data Science
- Computer Security
- Data Structures & Algorithms
- Discrete Mathematics and Probability Theory
- Introduction to Artificial Intelligence
- Efficient Algorithms and Intractable Problems
- Introduction to Database Systems

EXPERIENCE

MyVest | Incoming Software Engineering Intern San Francisco, CA | May 2019 - August 2019

Enterprise Wealth Management for the Digital Age

Caulis Inc. | Software Engineering Intern Tokyo, Japan | June 2018 - August 2018

Visualizing and performing analysis in realtime on customers' transactional data.

- Designed and fabricated an entity relationship graph database for Caulis FraudAlert and Caulis AI.
- Setup real-time visualization of around 10,000 transactions per minute using Gephi API and Toolkit.

Codeology | Project Member Berkeley, CA | August 2018 - Present

On campus club focused on self-exploration within the tech industry.

- Participated in coding interview sessions and professional development workshops
- Implemented Google Vision API and utilized RegEx to create receipt parsing technology for semester project.

SUSA @ UC Berkeley | CareerEx Consultant Berkeley, CA | October 2017 - May 2018

Statistics Undergraduate Student Association

- Underwent rigorous mentorship program that included 15 workshops on Pandas, NumPy, R, and SciPy.
- Used Kaggle datasets to learn fundamentals of machine learning, and competed in a collaborative Kaggle competition

Bayfair Dental | Database Management Intern San Leandro, CA | August 2017 - May 2018

Robust data representation & organization of patient records.

- Designed and engineered a database to store patient data that was previously tracked by physical folders.
- Used SQLite to create a RDBMS that allows quick, paperless access to x-rays, Perio-Charts, and previous procedures.

Global Glimpse | Volunteer & Ambassador Oakland, CA | September 2014 - June 2016

Conducted a volunteer trip alongside 15 other juniors to the Dominican Republic

- Designed and built a sustainable greenhouse for the Rio Blanco community, creating a stable source of fresh food
- Planned the curriculum for and taught English classes to under represented young adults in the community

PROJECTS

File Sharing Software | Go (800 lines) Spring 2019

- Utilized hybrid encryption protocols to design and implement an end-to-end encrypted file storage/sharing system.

CalDining APP | iOS/Swift (400 lines) Spring 2018

- Used auto-layout, MVC, and many other techniques learned from the iOS deCal to create an app that is able to tell you if you should or shouldn't eat at a specific on campus dining hall along with their entire menu.

Gitlet | Java (1,500 lines) Fall 2017

- Used serialization and SHA-ID's to make a miniature version control system similar to Git from scratch.

SKILLS & INTERESTS

Programming Languages: Python, Java, Pandas, NumPy, Go, C, Unix, SQL, HTML/CSS, Git, Logism, SciPy

Languages: English, Punjabi, Hindi, Spanish(Basic)

Interests: Hiking, Punjabi Music/Dance, Traveling(10+ countries visited including Singapore, Dominican Republic, Japan)