NILAY NEERANJUN

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Education

UNIVERSITY OF CALIFORNIA, BERKELEY - B.A. Data Science - GPA: 3.463

August 2017 - May 2021

- Concentration: Applied Mathematics & Modeling
- Relevant Coursework: Algorithms, Data Structures, Computer Security, Computer Architecture, Databases, Artificial
 Intelligence, Techniques of Data Science, Data Mining, Statistics for Data Science, Linear Algebra, Numerical Analysis
- Clubs and Activities: Entrepreneurs @ Berkeley, CalHacks 5.0, CalHacks 6.0, YHack V. 2020

Work Experience

SOFTWARE ENGINEER INTERN - Guidewire Software - San Mateo, CA

June 2020 - August 2020

- Worked in a small and fast-paced environment to develop a brand-new insurance processing system.
- Implemented and tested REST API in Kotlin & Spring Boot to download, submit, and process insurance PDF forms.
- Developed and tested a new Java SDK to simplify access to SOAP-based OCR service for processing PDFs.
- Refactored existing code to run asynchronously using Completable Futures resulting in 40% speedup of code.

WEB DEVELOPER - YB Normal Fishing - Fort Lauderdale, FL

June 2017 - August 2017

- Redesigned company's website using HTML, CSS, and JavaScript.
- Implemented Bootstrap grid framework for responsive UI design across all platforms.
- Taught owner how to update images on digital gallery and helped redesign logo in Photoshop.
- Set up hosting services for website using GoDaddy and uploaded files via FileZilla.

Projects

QR CODE SOCIAL MEDIA AGGREGATOR - Swift

- Created iOS app that allows users to instantaneously share and add other social media accounts using QR codes
- Allows for efficient social media sharing and faster networking.
- Implemented QR code scanner and reader using Apple's AVFoundation Framework.
- Implemented Firebase backend for authentication and storage of user information and past scans.
- App Store Link: apps.apple.com/us/app/sqre/id1519703310

END-TO-END ENCRYPTED FILE SHARING SERVICE - Go

- Encrypted user information and files using AES-CTR mode and RSA.
- Maintained integrity of user data using **HMACs** and **digital signatures** despite malicious data server.
- Created file sharing tree data structure to track user relationships and revoke privileges.
- Implemented efficient file append to run in linear time proportional to appended data.
- Wrote tests to verify protection across a variety of attacks.

RECEIPT PARSER / BILL SPLITTER - Python

- Utilized Google Vision API to translate images of receipts into raw text.
- Used regex to parse receipt into correct components (items, price, tax, etc.)
- Pulled data from online recipe books and other sites in order to verify items were correctly categorized.
- Implemented Flask backend to accept user images and return correct partitioning of bill amongst users.

Skills

• Languages: Java*, Python*, SQL*, Swift, C, Go, HTML, CSS, JavaScript

* Most Experienced

- Frameworks & Libraries: Flask, VueJS, Bootstrap, Pandas*, NumPy, Scikit-Learn
- Technologies: Git, LaTeX, Firebase, TeamCity, Jira