Anthony Deng

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Education

University of California, Berkeley GPA: 3.71/4.00

B.S. in Electrical Engineering and Computer Science *Aug. 2020 – May 2024*

Relevant Coursework: Data Structures, Computer Architecture (Machine Structures), Discrete Mathematics, Probability, Database Systems, Algorithms, Operating Systems, Compilers [In Progress]

Experience

Software Development Intern May 2023 - August 2023

Onsemi - F500 Semiconductor Manufacturer

- Wrapped a third-party vendor API service in Python to provide convenient database access to company engineers, saving ∼$5000 on licensing costs.
- Reduced querying times by an average of 30% by rewriting existing SQL queries for the most common use cases.
- Coordinated with external developers through Jira, Confluence and Microsoft Teams to address concerns/discuss potential improvements in vendor service.

Technical Staff Member August 2022 - September 2023

Open Computing Facility - UC Berkeley

- Develop web applications, with Berkeley alumni and students, to increase campus organization recruitment/outreach by an average of 100%.
- Create, test, and integrate React components into existing document models.
- Built REST APIs with Node's ExpressJS and MongoDB.

Academic Intern August 2022 - December 2022

CS61B - Data Structures - UC Berkeley

- Introduced Java, core data structures, and graph/sorting algorithms to 30+ students in lab sections.
- Thoroughly debugged, optimized, and documented project source code for future iterations of the course.

Projects

AutoMate: A Twitter Bot

Calhacks (Hackathon)

- Referenced Twitter's API using the Tweepy Python library to develop a Twitter bot that automated tweeting/direct messaging.
- Incorporated ChatGPT's AI model to generate relevant content when given specific keywords.
- Deployed the bot on PythonAnywhere's virtual environment as a cron job to automate its functionality.

Uni: Link Shortener

TreeHacks (Hackathon)

- Collaborated with a small team of programmers during Stanford's TreeHacks hackathon to develop an app that shortens URLs using Swift.
- Drawing inspiration from the F-Droid UntrackMe app, Uni parses URLs using regex to remove tracking parameters.

Technical Skills

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS

Frameworks: React, Bootstrap, Node.js, ExpressJS

Data Handling: pandas, polars, NumPy, Matplotlib

Workflow: Git, Bitbucket, Jira, Confluence