

Vishal Ambavaram

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Education

University of California, Berkeley

Berkeley, CA

B.A. IN DATA SCIENCE, MINOR IN COMPUTER SCIENCE

Aug. 2017 - Exp. May. 2021

- Coursework - The Structure and Interpretation of Computer Programs, Data Structures and Algorithms, Discrete Mathematics and Probability Theory, Foundations of Data Science, Linear Algebra, Efficient Algorithms and Intractable Problems, Great Ideas in Computer Architecture (IP), Principles and Techniques of Data Science (IP)

Experience

Lattice Automation

Boston, MA

SOFTWARE ENGINEERING INTERN

June. 2019 - Aug. 2019

- Built reusable synthetic biology design/automation microservices using Python, AWS Lambda and Serverless framework.
- Integrated microservices into several of Lattice Automation's tools: synbio library, an assembly automation tool, and Loom, a software suite for synthetic biologists.
- Developed a standalone front-end interface for the Gibson Assembly microservice using React.

Mofrad Lab

Berkeley, CA

UNDERGRADUATE RESEARCH ASSISTANT

Jan. 2019 - May. 2019

- Built a computational data analysis pipeline to assemble, annotate and analyze raw human gut metagenomics data.
- Integrated Trimmomatic, Burrows-Wheeler Aligner and SAMtools into the pipeline to pre-process input paired ends for a metabolic composition simulation using Python.

Nifty

Berkeley, CA

FULL-STACK DEVELOPER INTERN

Jan. 2019 - May. 2019

- Created a live-demo ready web platform using React. Populated demo store databases using web-scraped data and connected them to the web platform using Cloud Firestore. Configured user authentication using Firebase.
- Used SCRUM to develop product. Engaged in bi-weekly sprints to ensure efficient software development.

Computer Science Mentors

Berkeley, CA

MENTOR (DATA STRUCTURES)

Aug. 2018 - May. 2019

- Responsible for teaching an auxiliary weekly section of students concepts such as Java programming, data structures, run-time analysis, sorting and shortest path algorithms from CS61B - Data Structures and Algorithms.
- Led a final review session before the final class exam. Created a presentation to assist the review session.

Projects

Reddit Recommends

- Built a product-recommendation service leveraging Reddit crowd opinions using Python and Flask.
- Used scikit-learn to train and test a model that picks products using sentiment analysis.

BearMaps

- Wrote the back-end of a Google-Maps like application that services Berkeley using Java.
- Gained experience in parsing real-world data, utilizing an A* search algorithm for navigational instructions.

Skills/Interests

Languages Python, Java, C, HTML/CSS, Javascript

Tools/Technologies React, Firebase, AWS, Flask, Git, SCRUM, LaTeX

Personal Interests Basketball, Burgers, Horror/Sci-Fi Films