Vishal Ambavaram

ambavar98@berkeley.edu • (510) 708 9426
linkedin.com/in/vishal1998 • github.com/lukeiamyo
lukeiamyo.github.io

Education

University of California, Berkeley

BA in Data Science, Minor in Computer Science   *Aug 2017 - Exp. May 2021*

- Coursework - Data Structures and Algorithms, Discrete Mathematics and Probability Theory, Efficient Algorithms and Intractable Problems, Great Ideas in Computer Architecture, Principles and Techniques of Data Science, Introduction to Artificial Intelligence (IP), Introduction to Database Systems (IP)

Experience

Lattice Automation - *Software Engineering Intern*   *June 2019 - Aug 2019*

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

Mofrad Lab - *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 - *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 - *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 classexam. Created a presentation to assist the review session.

Projects

Reddit Reccomends

- 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, Guitar