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 (61A), Data Structures and Algorithms (61B), Discrete Mathematics and Probability Theory (70), Foundations of Data Science (c8), Linear Algebra (54), Calculus I/II (1A/1B), Efficient Algorithms and Intractable Problems (170) [In progress]

Experience

Mofrad Lab — *Berkeley, CA*

Undergraduate Research Assistant — *Jan. 2019 - PRESENT*

- Building data infrastructure and analysis pipelines to scrape, clean and analyze human gut microbiota based on Metagenomics data.
- Went through rigorous literature reviews to familiarize myself with the numerous possible analytics pipelines that we could use while noting the pros and cons of different methodologies.

Nifty — *Berkeley, CA*

Full-stack Developer Intern — *Jan. 2019 - PRESENT*

- Created and set up a live-demo ready web platform using React and MDBootstrap for React.
- Configured user authentication through Firebase and designed and connected databases, under the guidance of a database engineer, to the web platform using the Cloud Firestore.
- Use SCRUM (Agile framework) to develop product. Engage in weekly sprints to ensure efficient software development.

Extracurriculars

Computer Science Mentors — *Berkeley, CA*

Mentor — *Aug. 2018 - PRESENT*

- 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.

Undergraduate Lab at Berkeley — *Berkeley, CA*

Web Developer — *June. 2018 - Dec. 2018*

- Developed the website for the Physics and Astronomy Branch using HTML/CSS, Javascript and Flask.
- Integrated online python training modules, developed using Jupyter notebooks, into the website.

Projects

Reddit Recommends (Cal Hacks project)

- Built a product-recommendation service leveraging Reddit crowd opinions with a team of four students.
- 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 with a focus on optimized runtime.
- Gained experience in parsing real-world data, utilizing an A* search algorithm for navigational instructions.

Skills/Interests

Languages	Python, Java, HTML/CSS, Javascript, SQL
Tools/Technologies	Git, Flask, IntelliJ, LaTeX, Firebase, React, MDBootstrap, SCRUM
Personal Interests	Basketball, Burgers, Horror/Sci Films