Jared Andrew Basilio

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Education

University of California, Berkeley | Berkeley, Ca **Expected May 2024**

B.A. Computer Science, B.A. Data Science

Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Data Science Principles, Probability Theory, Random Processes, Discrete Math, Linear Algebra & Differential equations

Technical Skills

Languages: Python, Java, Javascript, Swift, SQL, R

Frameworks: React.js, HTML/CSS, Redux, JUnit, Jest, Flow

Tools: Git, IntelliJ, VS Code, ServiceNow, NetMRI, Airwave, Phabricator, Jira, Adobe Creative Cloud, Figma

Libraries: Pandas, NumPy, Matplotlib, Seaborn, React Testing Library

Work Experience

Incoming Software Engineering Intern January 2023 - April 2023

Uber Technologies, Inc. San Francisco, CA

Software Developer September 2022 - Present

Koer Tech (UC Berkeley Data Science Discovery Program) Berkeley, CA

- Integrating a hardware algorithm that continuously outputs immediate predictions using **PyAudio** and **Librosa**
- Utilizing a set of voice recordings to train and rank new recordings to one of the 12 emotions in speech
- Performing QA tests and optimizing the performance of the prototype of the newly developed body camera

Student Technology Consultant May 2022 - Present

Berkeley Student Technology Services Berkeley, CA

- Assisting Berkeley students with device and network issues such as data recovery, Wi-Fi diagnosis, and software errors
- Troubleshooting UC Berkeley specific issues such as software licensing, university-borrowed devices, and student portal
- Utilizing ServiceNow to directly communicate and manage incident tickets with customers and other teams under SAIT

UberSTAR Software Engineering Intern June 2022 - August 2022

Uber Technologies, Inc. San Francisco, CA

- Designed and built the interface for an existing tool that allows 1000+ teams to view, upload, and queue tabular data
- Wrote an ERD addressing the current UI/UX issues and their potential solutions that utilizes Uber specific technologies
- Utilized **React.js**, **Redux**, and **Flow** to implement Uber's internal components such as tables and navigation bars
- Developed unit and integration tests using the **React-Testing-Library** and **Jest** to test components and workflows
- Decreased overall load in times of pages and components by utilizing memoization, pagination, and forced data fetching

Data Structures and Algorithms Academic Intern June 2021 - May 2022

UC Berkeley Electrical Engineering & Computer Science Department Berkeley, CA

- Supported lab and project sections for UC Berkeley's Data Structures and Algorithms course of 1000+ students
- Clarified and debugged student Java code regarding developing data structures, basic algorithms, and project features
- Consulted with instructors to provide recommendations for improving the course and academic intern experience

Projects

Version Control System | Java

- Built a Version Control System that mimics Git's functionality and commands like commit, branch, merge, and checkout
- Designed a SHA-1 file hashing system that uses HashMaps and Java's Serializable interface to persist file data in blobs
- Performed tree traversals to navigate through commit history and merge various branches together

Multiagent Pac-man AI | Python

- Developed an AI to efficiently play Pacman against 4 ghosts using DFS, BFS, uniform costs, and A* search algorithms
- Implemented Value Functions, Q learning, and Approximate Q learning to assist agents to make rational decisions
- Implemented multiagent minimax and expectimax algorithms to provide Pacman with the best current move