

Kalyan Karamsetty

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EDUCATION

University of California, Los Angeles

Los Angeles, California

BS in Computer Science and Engineering

Expected December 2024

- **GPA:** 3.867/4.0
- **Relevant Coursework:** Data structures, Algorithms and Complexity, Software Construction, Data Management Systems, Operating Systems, Systems and Signals, Machine Learning

DEVELOPER SKILLS

- **Languages:** C++/C, Java, JavaScript, TypeScript, Node.js, Python, HTML, CSS, SCSS/SASS, Linux/Unix Shell
- **Technologies:** React, React Native, Expo, Firebase/Supabase, Next.js, git, THREE.js, PostgreSQL, Express.js, Docker

PROJECTS

Mapify — Co-Project Lead and Developer Lead (Creative Labs)

December 2022 - Present

- Leading a team of developers in creating a mobile app that curates playlists for the user based on listeners around them, allows users to virtually relocate to discover music, and allows users to join listening rooms with one another
- Used **Figma** to create a high-fidelity UI inspired by Spotify and **React Native** and **TypeScript** for the frontend
- Built a **Node** web server with **Express** to allow the frontend to poll and interact with the Spotify API and **Supabase**
- Assembled a team of 10 developers from an applicant pool consisting of over 70 undergraduate students at UCLA

BruinDine — Full Stack Developer

March 2022 - June 2022

- Architected a full stack **React Native** mobile application with a **Firebase** backend to increase accessibility to UCLA dining hall information such as menus and wait times
- Created a summary widget that updates and filters dining halls daily by students' dietary restrictions and wait times
- Formulated a rating system for students to submit and view consolidated feedback for each dining hall immediately
- Wrote an algorithm that computes the distance between students and dining halls, allowing geo based filtering
- Designed modern high-fidelity user flows inspired by industry-leading food ordering apps using **Figma**

PlanIt — Full Stack Developer (Creative Labs)

September 2022 - December 2022

- Worked with a team of 7 developers to construct a prototype full stack **React** application for planning trips around LA
- Used **React Context** to create powerful state management allowing for seamless interoperability between components
- Wrote **Python** scripts using the requests package to curate an events catalog sourced from the SeatGeek and Yelp APIs
- Constructed a paginated database, with a draggable interface using **Framer Motion**, that dynamically controls a map
- Created a series of onboarding pages to collect user preferences and current location to personalize the planning process

Personal Website — Full Stack Developer

June 2022 - Present

- Designed a full stack **React** and **TypeScript** application bootstrapped with **Next.js** to showcase my past projects
- Used **Firebase Firestore** with **Firebase Authentication** and **Storage** to store projects and update dynamic project data
- Created a minimalist color-focused UI with blur effects and **Framer Motion** to create a soft and modern atmosphere

ACADEMIC PROJECTS

Unhinged — CS 32: Algorithms and Data structures

March 2022

- Implemented a scalable dating app, inspired by Hinge, that determines and ranks people's compatibility with others using pre-generated paired traits in **C++**
- Wrote a custom template Radix Tree data structure for efficient searching and matchmaking methods which can generate a list of matches with 10,000 users in under a second

Super Peach Sisters — CS 32: Algorithms and Data structures

February 2022

- Built a spin-off of the 8-bit Super Mario game using the advantages of polymorphism for each game object in **C++**

ACTIVITIES

Learning Assistant, Undergraduate Learning Assistant for CS35L: Software Construction

January 2023 - Present

- Leading a 50-person discussion section each week by going over worksheets related to the material covered in lecture

Creative Labs, Co-Project/Developer Lead for Mapify, Developer for PlanIt

September 2022 - Present

Upsilon Pi Epsilon (Computer Science Honor Society), Tutor and Member

March 2022 - Present

- Tutor students weekly in computer science, mathematics, and physics courses at UCLA