NANDISH KHANDHAR (Email: nandishk@berkeley.edu)

EDUCATION

UC Berkeley: Expected date of graduation: 2025   **GPA: 3.632/4.0**

Major: B.A Computer Science; **Minor**: Astrophysics   **SAT/ACT: 35/36**

Related Coursework: The Structure and Interpretation of Computer Programs, Data Structures, Multivariable Calculus, Discrete Math, Probability and Random Processes, Honors Introductory Mechanics and Relativity

PROFESSIONAL EXPERIENCE

Perpetual - Software Developer for Forerunner Ventures   *New York, NY*

Summer Intern   *2023 Summer*

- Worked on rebranding the Forerunner Ventures website, implementing a modern and user-centric design that effectively communicates the firm's mission, values, and partnerships.
- Used Next.js and Contentful CMS for efficient content management. Implemented advanced features such as efficient filtering, interactive elements, and cross-device compatibility, while also optimizing for SEO.

URAP - Jadoo Technologies: Full stack project for Nanotech experiment testing   *Berkeley, California*

Research Student - Under professor Waqas Khalid (PhD), founder of Jadoo Technologies   *2022 Summer*

- Built software (using React, Spring Boot, Java) to statistically analyze live voltage data in carbon nanotube-based sensor experiments. Functionality to compare live data between 48 experiment channels.
- Saved 30+ hours of development by creating websocket connections that receive data from servers and update graphs instantaneously.
- Storing and manipulating simulation data on a Redis (NoSQL) database using Node and React.

Plextech at Berkeley   *Berkeley, California*

Developer for Flexcar (Subsidiary of Zipcar)   *Fall 2022*

- Used Spring Boot, React and PostgreSQL to revamp Flexcar's old spreadsheet based management model
- Provided a logic based task management solution for the vehicle service team at Flexcar by creating a full stack app that assigns and generates tasks based on factors such as location, damage level and skills.

RESEARCH ENDEAVORS AND PERSONAL PROJECTS

Handme - A marketplace for students to buy and sell second hand college necessities

Co-founder and Programming Lead   *2023 Summer onwards*

- Currently leading the end-to-end development of the app, from design to development, incorporating essential features such as user authentication, secure payment integration, and real-time messaging for seamless user experiences.
- Designed database models, and implemented the entire back-end of the app with Google OAuth2 user authentication, an OTP verification system, and a system to manage chats and notifications.

Gitlet - Implementing a Version-Control System from scratch (Java)   *Berkeley, California*

Programmer   *Spring 2022*

- Developed a version control system with init, add, commit, log, checkout functionality to mimic some of the features of git
- Employed the use of file persistence, SHA-1 encryption and data-structures to build above functionality

Research paper on Machine Learning - Mentored by Stephan Lemmer (PhD in Robotics at UMichigan)

Research Student/Mentee   *2021 Summer*

- Authored a research paper on "How can neural networks be used to effectively prevent adversarial attacks"
- Created a fully functioning neural network using PyTorch to detect/avoid data breaches, resulting in a 40% increase in accuracy after defense for adversarial attack was implemented (9.9% to 49.3%)

Skills: Proficient in Java, Python, React, SpringBoot and Next.js; Experience using PyTorch, Flask, Redis, Rust