

Nikhil Akiti

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EDUCATION

University of California, San Diego

Sep. 2023 – Jun. 2027 (Expected)

B.S. Computer Science — GPA: 3.7

- Regents Scholar - University of California Honors Program
- Coursework: Data Structures and Object-Oriented Design, Computer Organization and Systems Programming, Linear Algebra, Design and Analysis of Algorithms, Software Engineering, Machine Learning

EXPERIENCE

Computer Support Assistant

Feb 2025 – Present

University of California, San Diego

La Jolla, CA

- Provided front-line user support for production computing facilities in the Jacobs School of Engineering Dean's Office, academic departments, and affiliated laboratories, centers, and institutes
- Installed, maintained, and repaired hardware and software, including operating systems, application software, and peripheral devices (printers, scanners, handheld devices), while troubleshooting network and system issues.
- Delivered training and assistance to end-users on proper software and hardware usage, ensuring effective system utilization and problem resolution.

Undergraduate Research Assistant

Oct 2023 – Jun 2024

University of California, San Diego

La Jolla, CA

- Constructed web applications using the Rocket.rs web framework, Diesel ORM, and PostgreSQL that implemented CRUD functionality, JSON data, and cookies that were later used to test a refinement type checker for Rust
- Migrated 3 web applications developed in the Haskell language to the Rust language, maintaining functionality and improving performance, while navigating differences in programming structures and libraries
- Implemented and assisted in debugging a modified Rust object-relational mapping library that added generic refinements to functions and types

PROJECTS

Mash | | React JS, Node.js, Express, MySQL, Tailwind CSS, Heroku, Web Sockets, Axios

- Developed a full-stack web application utilizing the Elo ranking system to rank over 400 datasets based on user input, integrating real-time updates with Socket.io and ensuring seamless data interaction.
- Implemented key features including user authentication, CRUD functionality, search capabilities, cookie storage, and developed a RESTful API for efficient communication between the frontend and backend.
- Deployed the application on Heroku, managing data for over 500 user accounts and achieving over 50,000 lifetime visits, while ensuring scalability and real-time data updates for optimal user engagement.

E-Commerce Aggregator | | React JS, Next.js, Node.js, Express, MySQL, Beautiful Soup, AWS RDS, Axios

- Developed a full-stack web application using React.js and Next.js, seamlessly consolidating clothing data from multiple brands into a unified platform, enabling users to browse, save, and manage their favorite items with ease.
- Built a robust back-end architecture using Express, Node.js, and SQL, configured with AWS RDS, to effectively manage and store product data, user information, and ensure optimal performance for high-volume requests.
- Created and integrated a dynamic Python web scraper to fetch and update product details from specified websites, ensuring data accuracy and enhancing the user experience with up-to-date product information.

Note-ify | | React Native, Expo Notifications API

- Developed a cross-platform iOS and Android application that empowers users to create custom flashcards and receive notifications, enhancing their learning experience by delivering flashcards over a specified time period.
- Leveraged React Native Async Storage to efficiently and asynchronously store and retrieve user data directly on their devices, ensuring fast and reliable access to content even without an internet connection.
- Implemented the Expo notifications API to schedule and deliver personalized flashcard reminders

SKILLS

Languages: Java, JavaScript, Python, C, C++, Rust, HTML/CSS

Frameworks/Libraries: ReactJS, React Native, NodeJS, NextJS, ExpressJS, MySQL, Diesel, Rocket, Tailwind CSS, BeautifulSoup, Socket.io, Axios

Developer Tools: Git, Bash, VS Code, Azure