# Nikhil Akiti

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## EDUCATION

**University of California, San Diego**                                      Sep. 2023 – Jun. 2027 (Expected)
*B.S. Computer Science*
- 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 (Agile), Machine Learning

## EXPERIENCE

**Student Software Engineer**                                                                May 2025 – Present
*University of California, San Diego - IT Services*                                                  *La Jolla, CA*
- Contributed to full-stack development across diverse campus IT projects using Python, Java, Node.js, and SQL, adapting quickly to varying team needs in an Agile and DevOps-driven environment
- Automated the integration of a Python-specific SonarQube scanner into Bamboo CI/CD using custom Bash scripts, including environment setup, SSL trust configuration, and dependency management; authored clear internal documentation to support maintainability and onboarding
- Engineered a major version upgrade of a custom JupyterHub platform, orchestrating the deployment on Kubernetes using Helm/Helmfile and Docker. Resolved critical backend failures, including database schema migration conflicts, and refactored the legacy Jinja2 front-end theme to ensure full compatibility and UI consistency.

**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 that was used in publishing a research paper

## PROJECTS                                                                      NIKHILAKITI.COM/#PROJECTS

**Claimable AI** | React JS, Next JS, Node.js, Express, MySQL, Tailwind CSS, Azure Web Apps, Axios, OpenAI API
- Developed a full-stack agentic AI solution that assists users in writing insurance denial appeals by enabling document uploads, automatic parsing, and personalized letter generation using OpenAI, with support from a context-aware chatbot.
- Built a responsive frontend using React.js, Next.js, and Tailwind CSS; implemented secure file uploads via Azure Blob Storage, managed user sessions with cookies, and integrated frontend components with backend RESTful APIs using Axios.
- Designed and implemented a backend with Node.js and Express, connected to a MySQL database for managing users and uploaded files; incorporated user authentication and authorization via hashed credentials and session-based cookies, and deployed the application using Azure Web Apps.

**Fundraising Content Management System** | ⍾ | React JS, Next.js, Node.js, Express, MySQL, Azure, Axios
- Developed a full-stack web application using React.js and Next.js, that allows organizations to create donation pages based on editable templates and manage fundraising campaigns (p2p, ticketed events, etc.)
- Built a secure backend using Node.js, Express.js, and MySQL (hosted on Azure) to handle user authentication and authorization, dynamic routing, and persistent data management, ensuring a smooth user experience.
- Deployed the application on Azure App Service and Static Web Pages, leveraging CI/CD pipelines with GitHub Actions to automate testing, builds, and deployments, enabling rapid and reliable delivery of updates

## 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, Expo, Open AI API
**Tools**: Git, Bash, VS Code, Azure, Bamboo, Docker, Kubernetes