

KARTIKEYA KUMERIA

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EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

B.S. in Computer Science

Expected Graduation: December 2025

Relevant Coursework: Data Structures and Algorithms, Analysis of Algorithms, Computational Models, Machine Learning, Object-Oriented Python, Computer Architecture, Computer Graphics, C Programming, Linear Algebra, Discrete Mathematics, Assembly Language, Computer Systems, Database Systems, Game AI

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, TypeScript, SQL

Frameworks & Libraries: React, Next.js, Node.js, Express, Angular, Django, TensorFlow, PyTorch, Keras, Scikit-Learn

Tools & Platforms: Docker, Kubernetes, AWS, Git, REST APIs, OpenAI API, Llama

Databases: PostgreSQL, MySQL, MongoDB

EXPERIENCE

PACR

Remote

Fullstack Engineering Intern

Sep 2025 – Present

- Integrated the backend team's Search API into the frontend using Next.js and React, implementing real-time loading and SEO-optimized filtering to enhance user engagement and query responsiveness across multiple pages.
- Developed and documented React-based pages, configured authentication persistence, and streamlined developer onboarding by automating environment setup, linting, and CI workflows leveraging Node.js, MongoDB, Docker, and AWS.

UCSC Blueprint

Santa Cruz, CA

Software Developer

Feb 2024 – Present

- Designed and launched **YFIOB**, a full-stack K-12 career discovery web app using React.js, Next.js, Tailwind CSS, and Firebase, achieving 100% functional test coverage and mentoring 5+ contributors through documented workflows.
- Enhanced performance and reliability by integrating Firestore for real-time profile rendering and implementing robust Firebase Authentication error handling, reducing failed logins by 50% and improving load times by 30%.

SKYIT (Subsidiary of GBCS Group)

Remote

Backend Developer Intern (Django & REST)

Apr 2024 – Aug 2024

- Resolved API ingestion failures and restored client onboarding functionality within 2 days by cleaning and validating onboarding datasets in MySQL and CSV, ensuring seamless backend-frontend data integration.
- Developed secure authentication endpoints using Django REST Framework and Postman, mentored backend interns, and reduced bug reports by 20% and integration rework by 15%.

CodeDay

Remote

Software Engineering Intern

Jan 2025 – Present

- Enhanced the Open Energy Dashboard (OED) by building modular features and a JS-based conversion engine to transform kWh to BTU, enabling dual-unit reporting for real-time sustainability analytics ([GitHub PR](#)).
- Improved reliability by achieving 100% Mocha.js test coverage, Dockerizing environments, and resolving merge conflicts to reduce setup issues by 40%.

PROJECTS

Survey Karrot | *React, TypeScript, Vite, Node.js, Express, PostgreSQL*

Jul 2025 – Sep 2025

- Built a full-stack survey platform with JWT auth, dynamic survey builder, secure response storage, role-based access, and Jest tests; deployed on Vercel at survey-karrot.vercel.app.

Task Manager Application | *React, Redux, Node.js, Express, PostgreSQL*

Feb 2025 – May 2025

- Developed a task manager app with JWT authentication, RESTful APIs, and PostgreSQL persistence; optimized backend concurrency and deployed on Render at lumaa-spring-2025-swe-submission-from-tok6.onrender.com.

LogBlog | *React, Django REST, Tailwind, PyTorch, SentenceTransformer, PostgreSQL*

Jun 2025 – Jul 2025

- Created an AI-powered blog platform with JWT-based authentication, automated email notifications, and ML-driven tutorial generation using PyTorch and SentenceTransformer; deployed at logblog-karti.vercel.app.