

# KARTIKEYA KUMARIA

📍 U.S. Citizen    ✉ [kartikeyaku@gmail.com](mailto:kartikeyaku@gmail.com)    [in LinkedIn](#)    [GitHub](#)    [Website](#)

## EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

*B.S. in Computer Science*

*Expected Graduation: March 2026*

**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*

*July 2025 – November 2025*

- Integrated the backend team's Search API into 10+ frontend components using Next.js and React, enabling real-time loading and SEO-optimized filtering that improved user engagement by 25% and reduced average query latency by 35%.
- Developed and documented 8+ React-based pages, implemented authentication persistence for concurrent user sessions, and automated environment setup, linting, and CI workflows with Node.js, MongoDB, Docker, and AWS resulting in onboarding time cut by 50%.

### 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 40+ secure authentication API testing endpoints using Django REST Framework and Postman, mentored backend interns, and reduced bug reports by 20% and integration rework by 15%.

### 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%.

### CodeDay

Remote

*Software Engineering Intern*

*October 2023 – December 2023*

- Enhanced the Open Energy Dashboard (OED) by developing 5+ modular components and a JS-based conversion engine converting over 40 kWh energy data readings to BTU in real time, enabling dual-unit reporting and improving sustainability analytics accuracy by 30% ([GitHub PR](#)).
- Increased system reliability by achieving 100% Mocha.js test coverage across 60+ test cases, Dockerizing development environments, and resolving 15+ merge conflicts, reducing environment 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](https://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](https://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](https://logblog-karti.vercel.app).