KARTIKEYA KUMARIA

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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 Development Intern *July 2025 – December 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.

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.