VARUN KANNA

###-###-#### | varunkanna1@outlook.com | LinkedIn | GitHub | Pleasanton, CA

Education

University of California, Santa Cruz — Expected Graduation June 2026
Bachelor of Science in Computer Science — *Santa Cruz, CA*
GPA: 3.96/4.00

Relevant Coursework: Data Structures & Algorithms, Principles of Computer Systems Design, Computer Architecture, (CodePath) Web Development
Activities: UCSC Google Student Developer Club, UCSC Association for Computing Machinery

Skills

Languages: Python, JavaScript, TypeScript, SQL, HTML/CSS
Tools: Git, Jest, Docker, PostgreSQL, Firebase, MongoDB, Jenkins
Frameworks: React, Node.js, Express

Work Experience

Keysight Technologies — Santa Rosa, CA
Frontend Software Engineer Intern — *January 2025 - Present*

- Spearheaded the development of interactive data dashboards in Angular, improving real-time visualization by 30%
- Optimized system observability by integrating InfluxDB & Prometheus, reducing query response time by 120ms
- Automated test execution across devices with OpenTAP, reducing setup time by 50% and ensuring seamless data flow

SS&C Technologies — San Francisco, CA
Software Engineer Intern — *July 2024 – September 2024*

- Enhanced performance test visualization by developing Python scripts that condensed 242+ graphs into one report
- Developed a Jenkins pipeline to automate ETL, cutting manual effort by 83.4% and execution time by 33s
- Optimized performance test reporting by automating outdated file removal in MinIO, reducing storage usage by 27%
- Presented AI-assisted testing proof-of-concept by researching tools to demonstrate AI's potential in test automation

IBM — Remote
Accelerate Program Participant - Software Track — *June 2024 – July 2024*

- Completed an 8-week program on Front-End, Back-End, REST APIs, Generative AI, and Cloud Native Development
- Built a task app with React, Node.js, and MongoDB with real-time updates and a streamlined user experience

Innovate Mobile — Remote
Full Stack Software Engineer Intern — *April 2024 – June 2024*

- Developed a full-stack web application using MongoDB, Express.js, React, and Node.js for an aggregator app
- Migrated 6,103+ data entries from SQLite to MongoDB, leading to a 64.8% improvement in query performance
- Directed modeling of data and API endpoints for seamless integration between front-end and back-end systems
- Enhanced data processing automation by 14s through email scraping and user data integration using Python
- Maintained unit tests for the existing codebase, increasing code coverage to 65.6% and reducing bugs by 32.7%

Projects

TCG Tracker - Pokemon Card Tracker | *JavaScript, React, Node.js, Express, Firebase*

- Designed a card grading tool that enables users to assess grading value and profitability of their collection
- Leveraged Google Cloud Vision API to automate card identification and entry, resulting in a 35% time saving
- Boosted collection tracking efficiency by 27% by developing a collection management system with Chart.js

SelfTour - Itinerary App | *TypeScript, React, Firebase, Firestore, Tailwind CSS*

- Engineered an app linking travel planners and travelers for AI-assisted itinerary planning and route optimization
- Achieved a 41s reduction in itinerary planning time for users in congested cities with a streamlined user experience
- Increased application responsiveness by 26.8% by developing frontend and backend using React and Node.js
- Improved overall performance by integrating Firebase for data management and TypeScript for data validation