Varun Kanna

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Education

University of California, Santa Cruz Expected Graduation June 2025
Bachelor of Science in Computer Science *Santa Cruz, CA*
GPA: 3.96/4.00
Relevant Coursework: Computer Systems and C Programming, Data Structures & Algorithms, Introduction to Analysis of Algorithms, Computer Architecture, (CodePath) Web Development
Activities: UCSC Google Student Developer Club, UCSC Association for Computing Machinery

Skills

Front End: JavaScript, TypeScript, Tailwind CSS, HTML, CSS
Back End: Python, Node.js, Express, MongoDB, Firebase
Testing/Deployment: Jest, Jenkins, MinIO, Locust
Developer Tools: Git, npm, Vite, Netlify, Ubuntu, GitHub, Agile Methodologies

Experience

SS&C Advent San Francisco, CA
Software Development Engineer In Test Intern *July 2024 – Present*

- Enhanced performance test visualization by developing Python scripts that condensed **5,000+** graphs into one report
- Developed a Groovy script in Jenkins to automate ETL, cutting manual effort by **80%** and execution time by **30s**
- Optimized performance test reporting by automating outdated file removal in MinIO, reducing storage usage by **25%**
- 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*

- Secured a spot in the IBM Accelerate Program, being Selected as **1** of **175** participants from **10,000+** applicants
- Completed an 8-week program on Front-End, Back-End, REST APIs, Generative AI, and Cloud Native Development

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
- Managed the migration of **5,000+** data entries from SQLite to MongoDB, enhancing query performance by **50%**
- Directed modeling of data and API endpoints for seamless integration between front-end and back-end systems
- Enhanced data processing automation by **10s** through email scraping and user data integration using Python
- Maintained unit tests with Jest for the existing codebase, increasing code coverage to **70%** and reducing bugs by **40%**

Projects

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

- Engineered an app linking travel planners and travelers for AI-assisted itinerary planning and route optimization
- Achieved a **30s** reduction in itinerary planning time for users in congested cities with a streamlined user experience
- Increased application responsiveness by **20%** by developing frontend and backend using React and Node.js
- Improved overall performance by integrating Firebase for data management and TypeScript for data validation

SmokeScreen - Blocker for Content | *JavaScript, Chrome Storage API*
ACM Hacks x Grace Hacks - Most Ambitious Award

- Pioneered a Chrome extension to block specified content, improving efficiency by **30%** using agile methodologies
- Strengthened the functionality of the extension by debugging **50+** edge cases to ensure content is blocked properly

SpotYt - Spotify to YouTube Playlist Converter | *Python, YouTube Music API, Exportify*

- Engineered a Python tool to automate playlist conversion, achieving **90%** success across **20** playlists
- Streamlined playlist conversion, reducing song addition times by **40%** on average for albums with **100-1000** songs
- Enforced CRUD functionalities and implemented data checks, which reduced processing times by **30s**