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, Foundations of Programming Languages, Introduction to Analysis of Algorithms, Computer Architecture, (CodePath) Web Development
Activities: UCSC Google Student Developer Club, UCSC Association for Computing Machinery

Skills

Languages: JavaScript, TypeScript, Python, C/C++, HTML, CSS
Frameworks/Libraries: React, Node.js, Express, Tailwind, Locust, Flask, Pandas, Numpy
Databases: MongoDB, Firebase
Tools: Git, npm, Vite, Netlify, Ubuntu, Jenkins, MinIO, GitHub, VS Code

Experience

SS&C Advent San Francisco, CA
Software Development Engineer In Test Intern *July 2024 – Present*
- Enhanced performance test visualization by developing Python scripts to generate multi-level reports which condensed **5000+** graphs into one report with data from MinIO
- Developed 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 covering front-end, UX design and development, back-end, Rest APIs, generative AI, and Cloud Native Development, was **1** of **175** chosen out of **10,000+** applicants

Innovate Mobile Remote
Full Stack Software Engineer Intern *April 2024 – June 2024*
- Managed the migration of **5,000+** data entries from SQLite to MongoDB, enhancing scalability and 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 for the existing codebase, increasing code coverage to **70%** and reducing bugs by **40%**

Projects

SelfTour - Itinerary App | *TypeScript, React, Firebase, Firestore, Tailwind*
- Achieved a **30s** reduction in itinerary planning time for users in congested cities with a streamlined user experience
- Increased application responsiveness by **20%** compared to previous iterations by developing frontend and backend functionalities using React and Node.js
- Improved overall application 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 the development of a Google Chrome extension that blocks content with specified words by **30%** through streamlining the workflow with 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, resulting in **20** playlists being converted with a **90%** success rate
- Streamlined playlist conversion through reducing song addition times on average by **40%**, and benchmarked this for various album sizes ranging from **100-1000** songs
- Enforced CRUD functionalities to improve the user experience by implementing robust data specification checks that improved processing times by **30s**