

# VARUN KANNA

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## Education

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### University of California, Santa Cruz

*Bachelor of Science in Computer Science*

*GPA: 3.96/4.00*

*Relevant Coursework:* Computer Systems and C Programming, Data Structures & Algorithms, Computer Architecture, (CodePath) Web Development

*Activities:* UCSC Google Student Developer Club, UCSC Association for Computing Machinery

Expected Graduation June 2026

*Santa Cruz, CA*

## Skills

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**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, Vite, Netlify, GitHub

## Work Experience

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### SS&C Advent

*Software Engineer Intern*

San Francisco, CA

*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- Optimized performance test reporting by automating outdated file removal in MinIO, reducing storage usage by 27%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

*Accelerate Program Participant - Software Track*

Remote

*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

*Full Stack Software Engineer Intern*

Remote

*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 6,103+ data entries from SQLite to MongoDB, enhancing query performance by 64.8%
- 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

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### 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

### SmokeScreen - Blocker for Content | *JavaScript, Chrome Storage API*

- Pioneered a Chrome extension to block specified content, improving efficiency by 33.7% using agile methodologies
- Strengthened the functionality of the extension by debugging 54+ edge cases to ensure content is blocked properly

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

- Created a Python tool to automate playlist conversion, achieving 91.3% success across 20 playlists
- Streamlined playlist conversion, reducing song addition times by 45.5% on average for albums with 100-1000 songs
- Enforced CRUD functionalities and implemented data checks, which reduced processing times by 36s