

# 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: 3.96/4.0*

*Relevant Coursework:* Object Oriented Programming, Data Structures & Algorithms, Discrete Mathematics, (CodePath) Intro to Web Development

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

## Skills

**Front End:** JavaScript, Python, HTML, CSS

**Frameworks/Libraries:** React, Node.js, Express, Tailwind, Flask

**Databases:** MongoDB, Firebase

**Developer Tools:** Git, npm, Vite, GitHub, VS Code

## Experience

### IBM

Remote

*Accelerate Program Participant - Software Track*

*June 2024 – July 2024*

- Improved skills in a 8-week program which included 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
- Demonstrated proficiency in JavaScript, React, Node.js through developing hands-on projects and mentorship with IBM developers and industry leaders

### 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%**
- 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**