

# VARUN KANNA

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## Education

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**University of California, Santa Cruz**

September 2022 - June 2025

*Bachelor of Science in Computer Science*

*Santa Cruz, CA*

GPA: 3.96/4.0

**Relevant Coursework:** Data Structures & Algorithms, (CodePath) Intro to Web Development, C Programming, Machine Learning, Computer Architecture, Computer Systems & Assembly

**Extracurriculars:** UCSC GDSC, UCSC ACM, IBM Accelerate Participant, CodePath Fellow

## Skills

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**Languages:** Python, JavaScript, HTML/CSS

**Frameworks:** React

**Tools:** Firebase, MongoDB, Flask, SQLite, Git, GitHub

**Concepts:** Software Engineering, Full Stack

## Experience

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**Full Stack Software Engineer Intern**

April 2024 – Present

*Innovate Mobile*

*Remote*

- Managed the migration of over 5,000 data entries from SQLite to MongoDB, enhancing database scalability and query performance by 50%
- Enhanced data processing automation by 25% through backend 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%
- Coordinated with team members on Slack to discuss project scope, design, and infrastructure, leading to a 20% reduction in project development time

**Accelerate Program Participant - Software Track**

June 2024 – July 2024

*IBM*

*Remote*

- Selected as one of the top 5% out of 10,000 applicants for the 8-week IBM Accelerate Program's Software Track, demonstrating exceptional skills and knowledge in software development

## Projects

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

April 2024

- Achieved a 50% reduction in itinerary planning time for users navigating congested cities like San Francisco by engineering a streamlined user experience
- Increased application responsiveness by 20% compared to previous iterations by developing frontend and backend functionalities using TypeScript and Node.js
- Reduced database query latency by 25% and improved overall application performance by integrating Firebase for data management
- Accelerated design iteration cycles by 40% and ensured rapid implementation of user feedback by utilizing Figma for prototyping

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

November 2023

*ACM Hacks x Grace Hacks - Most Ambitious Award*

- Accelerated the development timeline of a Google Chrome extension by 30% through streamlining the workflow with agile methodologies
- Improved the backend functionality using the Chrome Storage API and JavaScript to allow users to save their phrases
- Strengthened the functionality of the extension by 50% through meticulously debugging issues to make sure the specified content is blocked

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

June - August 2023

- Developed a custom Python automation tool to streamline playlist conversion by utilizing the YouTube Music API and Exportify
- Automated playlist conversion to reduce the time needed to add songs 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