

# VARUN KANNA

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## Education

**University of California, Santa Cruz**

**September 2022 - June 2025**

*Bachelor of Science in Computer Science*

*Santa Cruz, CA*

*GPA: 3.95/4.0*

**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

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

**Developer Tools:** Git, GitHub, Ubuntu

**Technologies/Frameworks:** React, Firebase, MongoDB, Flask, SQLite

## Experience

**Full Stack Software Engineer Intern**

**April 2024 – Present**

*Innovate Mobile*

*Remote*

- Improved data retrieval speed for restaurant email content by 40% by migrating from SQLite to MongoDB, optimizing database performance
- Enhanced data processing automation by 25% through backend email scraping and user data integration using Python
- Boosted user engagement by 30% by implementing React pages that dynamically adapt to user preferences
- Achieved a 30% reduction in manual intervention by streamlining the development workflow with the implementation of CRON jobs for periodic script execution

## Projects

**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*

- Expedited the development of a Google Chrome extension that automatically hides user specified content
- 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

**NBA Comparison Tool** | *Python, Pandas, Numpy, NBA API*

**April - May 2023**

- Engineered a Python script to compare players by metrics such as true shooting percentage and effective field goal percentage using Pandas & Numpy to handle player objects
- Retrieved statistics that contributed to more up-to-date comparisons between players by utilizing the NBA API
- Created a menu tool employing regex resulting in a 30% reduction in time required for comparisons