# 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*
**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*
- Developed Python scripts to automate email scraping and serve email data from MongoDB via a Flask API, increasing efficiency by 20%
- Optimized application performance by 30% through refactoring existing code, enhancing the overall user experience and reducing load times
- Migrated the database from MySQL to MongoDB, improving query performance by 40% and enabling more flexible and scalable data management
- Implemented automated testing procedures using JavaScript and Selenium, which reduced bug reports by 40%

## Projects

**SelfTour - Itinerary App** | *TypeScript, React, Firebase, Firestore, Tailwind*                April 2024
- Engineered a streamlined user experience, reducing itinerary planning time by 50% for users navigating congested cities like San Francisco
- Developed frontend and backend functionalities using TypeScript and Node.js, resulting in a 20% increase in application responsiveness compared to previous iterations
- Integrated Firebase for data management, resulting in a 25% reduction in database query latency and improved overall application performance
- Utilized Figma for prototyping, accelerating design iteration cycles by 40% and ensuring rapid implementation of user feedback

**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