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: 3.96/4.0
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

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
- 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

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

- 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

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