Justin Cheok

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Education

New York University, Tandon School of Engineering, Brooklyn, NY Fall 2019-Fall 2023
Double Major in Computer Science and Business & Technology Management
GPA: 3.6; Dean's List: Fall 2021 & Spring 2022
Relevant Coursework: Software Engineering, Object Oriented Programming, Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Architecture, Operating Systems, Artificial Intelligence, Discrete Mathematics

Technical Skills

Coding Languages: HTML, CSS, JavaScript, TypeScript, Python, C, C++
Operating Systems: Windows, Linux (Ubuntu)
Other Tools: Microsoft Excel, React, Git, Pandas, Numpy, Matplotlib, Seaborn

Experience

Software Engineer: ***Reactor 8*****,** Palo Alto, CA Aug 2023 - Present

- Creating a data-driven parser for package.json files using TypeScript
- Improved product documentation for readability, completeness, and correctness
- Assisted with cleaning up outdated code and updating modules to utilize packages like Zod

Founder: ***galaKeys***, Palo Alto, CA Dec 2021 - Present

- Used Matplotlib, Pandas, and Seaborn to create kernel density estimation plots with correlations around the mechanical keyboard industry.
- Conducted data gathering and analysis to produce theories about marketing tactics of the 2010s versus the early 2020s regarding mechanical switch choice
- Built and tailored over 20 bespoke custom keyboards as commissions for clients around the US
- Analyzed the market position and value of 5 custom keyboard kits based off of their pricing, engineering, and timing of sale

Software Development Intern: ***Artemis Networks***, San Jose, CA Mar 2021 - Aug 2022

- Automated manual phone locating process through Python scripts, reducing workflow process from 45 minutes to seconds
- Led project team in troubleshooting project phones by teaching 6 interns how to utilize ADB during SAP center case study
- Assisted project team with the installation of satellites for outdoor testing and demos of pCell technology for companies like Microsoft

Projects

Todo-List Web Application (HTML, CSS, JavaScript) July 2023

- Built a mobile-friendly todo-list web application using HTML, CSS, and JavaScript
- Stored user's tasks and projects locally utilizing the localStorage API

Artificial Intelligence Puzzle Solvers (Python) Nov 2022 - Dec 2022

- Produced Japanese Futoshiki problem solutions by integrating an artificial intelligence backtracking algorithm with MRV and degree heuristics in a Python solver
- Solved 15-puzzle problems by implementing an A* search algorithm with Manhattan heuristics in a Python solver