Thomas Joel

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Education

University of California, San Diego — Expected June 2024
B.S. in Computer Science — GPA: 3.572

- Coursework: Algorithm Design, Advanced Data Structures, Software Engineering, Computer Architecture, Operating Systems, Computer Security, Database Analytics

Projects

izzatommy.site — Aug 2023 – Sept 2023
github.com/IzzaTommy/izzatommy.site

- Created a responsive **HTML** website for portfolio display using the **Bootstrap** framework.
- Applied **mobile-first** design philosophy for streamlined development and accessibility for all devices.
- Incorporated custom **CSS** and **SASS** stylings to create a unique aesthetic.
- Implemented server-side **Git Hooks** to detect and automatically deploy pushes to the repository.

PC Fan Visualizer — July 2023 – Oct 2023
github.com/IzzaTommy/Cooler-Visualizer

- Outlined a wireframe diagram for displaying critical GPU information in an easy-to-view format.
- Designed an interactive and informative GUI on fan speed data using **CPP**.
- Utilized NVIDIA's **NVAPI** to access GPU metrics such as clock speed and fan speed.

CSE 135 Website — Apr 2023 – June 2023

- Created an **HTML** website for displaying work for a school course on database analytics.
- Utilized **JavaScript** for responsible data collection timing performance and user activity.
- Developed a **REST API** using **Node.js** to communicate with a backend built on **MySQL**.
- Designed data charts and tables to provide complete and insightful user performance metrics.

RoommateHub — Oct 2022 – Dec 2022
github.com/cse110-fa22-group3/cse110-fa22-group3

- Worked in a **scrum** team to develop a web app for organizing household responsibilities.
- Designed end-to-end and unit tests on all app functions using **Puppeteer** and **Jest**.
- Deployed **CI/CD** pipeline with **GitHub Actions** to automate tests and style checking.
- Organized weekly standups, sprint goals, retrospectives, and scrum boards.

Infographic Maker — July 2022 – Oct 2023
github.com/IzzaTommy/Cards

- Developed a **Python** GUI program to customize and create infographics for Genshin Impact.
- Created an informative and compact infographic design with familiar elements of the game's design.
- Utilized the **BeautifulSoup4** package to scrape the Genshin Impact wiki for image assets.

Skills

Languages: Java, Python, C, JavaScript, HTML, CSS
Frameworks and Libraries: Node.js, Bootstrap
Tools: Git, Linux