Dylan Tsao

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EDUCATION

University of Illinois at Urbana-Champaign   Champaign, IL
Bachelor of Science in Mathematics & Computer Science   *Aug. 2021 – Dec 2024*
Coursework: System Programming, Computer Architecture, Graph Theory, Data Structures
GPA: 3.80

EXPERIENCE

CS124 Course Assistant   Aug 2022 – Dec 2022
University of Illinois at Urbana-Champaign   *Champaign, IL*
- Coordinated weekly office hours, effectively clarifying course concepts for 30+ students per week, answering questions on quizzes, and guiding machine projects, resulting in an increased understanding of course material
- Demonstrated exceptional time management by dedicating 10 hours weekly, enhancing the quality of student support services, as evidenced by an increase in student satisfaction ratings
- Accomplished strong communication skills by making complex computer science principles accessible, as noticeable by an increase in student comprehensive rates based on pre- and post-lecture surveys

Summer of Side Projects 2022   June 2022 – July 2022
University of Illinois at Urbana-Champaign   *Remote*
- Completed a month-long comprehensive technical program, enhancing skill sets and fostering innovative thinking, demonstrated by successfully completing five complex projects that incorporated advanced technical concepts
- Participated in tutorials on Chatbots, Flask, CLI, and Game Development, applying hands-on techniques to develop four distinct projects, including a Discord Bot and Flappy Bird
- Leveraged in-depth knowledge of command-line interfaces to develop user-friendly command-line programs, improving operational efficiency by 25% in testing scenarios

PROJECTS

Grape Card | *Next.js, Typescript, CSS, Git*   Aug 2023 – Present
- Developing a credit card website by accurately mimicking the design and functionality of the Apple Card to showcase and enhance front-end development skills
- Utilizing a combination of Next.js and Typescript to create a responsive and interactive user interface, ensuring seamless user experience that closely aligns with the industry's renowned design standards

Portfolio Website | *JavaScript, Vanta.js, CSS/SCSS, HTML, Git*   May 2023 – Present
- Developed a portfolio website as my inaugural front-end project to showcase professional skills and projects
- Implemented responsive design techniques ensuring the website offers an optimal viewing experience across various devices and screen sizes to enhance user accessibility and engagement

NextGen Resume | *Next.js, Tailwind CSS, Git*   Aug 2023 – Sep 2023
- Developed a responsive resume by focusing on creating a visually appealing and adaptable layout across various devices to showcase personal qualifications and experiences
- Experimented with Tailwind CSS in the project, enhancing CSS skills and understanding of utility-first frameworks, thereby improving the efficiency and maintainability of the website's styling

Alter-Flash | *C++, Javascript, NPM, Git, Docker*   Feb 2023 – May 2023
- Co-developed a unique flash-card program by enabling students to switch between various subject topics, thereby enhancing memorization to maximize prolonged studying
- Ensured code quality and testing efficiency using Catch2 library for C++ and Mocha for JavaScript, adhering to camelCase style guidelines and utilizing Clang-Tidy for code style checks and coverage computation
- Adopted a planning strategy for incremental development by weekly rotation between front-end and back-end groups to ensure balanced exposure and skill development across the project

SKILLS

Languages: C/C++, Python, HTML/CSS, JavaScript, Typescript, Java, Tailwindcss, SQL
Frameworks/Developer Tools: React, Node.js, Next.js, Git, Docker, Cursor, VS Code