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Education

University of Houston   **August 2020 – December 2024**
Bachelor of Science in Computer Science   *3.55 GPA*

Experience

The University of Houston, Computer Science Department   **August 2022 – Present**
Teaching Assistant   *Houston, TX*
- Instructed **350+** *Algorithms and Data Structures* students in the design and mathematical analyses of algorithms.
- Delivered office hours to **35+** weekly students for algorithmic paradigms such as recursion and dynamic programming.
- Guided **450+ students** through fundamental principles of **C++** and **object oriented programming (OOP)**.

CougarCS   **August 2023 – Present**
Director of Tutoring   *Houston, TX*
- Drove a surge in community growth within my first **100 days** with over **400+** new users joining CougarCS Tutoring.
- Led a **38** member tutoring team within the campus's longest serving Computer Science Organization.
- Facilitated review workshops covering topics in **Data Structures** and **Algorithms** with **60+** member turnouts.
- Administered an inclusive space of **1500+** users seeking free peer-to-peer assistance and professional development.

TensorIoT, Inc.   **January 2024 – Present**
Student Project Developer
- Developed a comprehensive End-to-End Manufacturing Simulation supported by **AWS** for data storage and processing.
- Leveraged **test driven development** to maintain test coverage over **90%** on our front-end unit testing.
- Conceptualized a user-friendly front-end for presenting several advanced **data visualizations** in React.
- Consulted with product and solutions expert to provide TensorIoT production-ready software within **4 months**.
- Actively analyzed pivotal design considerations, consequences and trade-offs throughout each **2 week** sprint cycle.

Projects

Gibraltr Visa Searcher | *Next.js, JavaScript, TailwindCSS*   **January 2023**
- Outlined a professional user experience (UX) that connects passport holders with **over 38,000** travel restrictions.
- Integrated dynamic routes to arrange visa requirements for **199 nationalities** from a Passport Index API data set.
- Composed a scalable multiple-page application of **24** fully responsive front-end components for mobile and desktop.

Portfolio Website | *Next.js, TypeScript, TailwindCSS*   **April 2023**
- Tailored a **DRY** layout pattern of 5 modular React components suitable for all screen sizes.
- Employed **abstraction** to deliver reusable, coherent and concise code for a **single** simplistic layout.
- Modernized a minimalist user interface (UI) with a heavy emphasis on **hierarchy** and **active whitespace**.
- Utilized server-side rendering for swift single-page application (SPA) accessibility and higher performance.

CougarAI Website | *Next.js, TypeScript, TailwindCSS*   **April 2023**
- Propelled a **37%** surge in club growth by means of an engaging interface and seamlessly designed user experience.
- Independently built a fully responsive product within **12 weeks** while travelling abroad in **6** countries.

Quotr - Fuel Quotes | *Next.js, JavaScript, TailwindCSS, NextAuth.js, Jest, MongoDB*   **February 2023**
- Spearheaded development of front-end and back-end infrastructure with over **180 contributions** within **3 months**.
- Promoted cohesive team collaboration by promptly reviewing **50** pull requests.

Technical Skills

Languages: TypeScript, JavaScript, Python, C++, Java, HTML/CSS, Ruby, Haskell, Go
Frameworks: Next.js, Jest, Vue.js, TailwindCSS, MongoDB
Libraries: React.js, HeadlessUI, MaterialUI, ChakraUI, Node.js, NextAuth.js, NumPy, OpenCV, OpenAI
Developer & Design Tools: Git, Figma, AWS, VSCode, Vercel Jenkins, Photoshop, Inkscape