

Vaishnavi Sen

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Education

California State University, Northridge (CSUN)

August

2021- May 2025

Bachelor of Science in Computer Science

Course Work: Data Structure and Algorithms, Advanced Data Structures, Computer Architecture and Assembly Language, Discrete Structures; Intro. to Operating Systems; Automata Theory; Combinational Algorithms; Software Engineering; Intro. to Probability and Statistics; Machine Learning

Professional Experience

Student Assistant, Web Development, CSUN IT

July 2023 - Present

- Design and develop the CSUN mobile app in collaboration with Modo Labs, serving a diverse user base of 40,000 students to personalize user experience, enhance accessibility, and improve campus engagement.
- Conduct research with 100+ students and 10+ campus organizations alongside web developers to get feedback about content and design with the motive of integrating diverse resources into the mobile app.
- Collaborate with UI/UX designers and CSUN's Universal Design Center to offer a seamless user experience and integrate WCAG and Section 508 accessibility standards into design processes for inclusivity.
- Utilize Modo Labs' XModule feature to create interactive and user-friendly screens within the CSUN mobile app including greetings and customized events carousel.

Personal Projects

Web Developer, Techmetrica Research Project

October 2023 - Present

- Coordinate with Prof. Katya Mkrtchyan and the team to develop a website to research the psychology of technology through interactive games that provide feedback about the users' decision-making.
- Produce a comprehensive report of the users' results to compare among 1000+ national representatives while encouraging social media sharing to further promote the website.
- Employ MongoDB database to securely store user-collected data by incorporating hashing mechanisms and enable safe intended research.
- Incorporate Next.js framework with GraphQL queries in the backend to efficiently fetch and render the requested data, enhancing user experience and website performance.
- Utilize NextAuth to streamline the authentication process, enabling seamless integration with multiple authentication providers such as Google, Facebook, and GitHub.

Web Developer, Integer Conversion Website

October 2022 - March 2023

- Developed a conversion website with a team of students utilized by over 200 students for class assignments with the primary focus of converting integers and floating point numbers to different bases.
- Designed responsive and user-friendly web pages using Bootstrap to promote usage and enhance user experience.
- Implemented optimal encoding and decoding algorithms to achieve efficient conversion of numbers.
- Utilized GitHub workflows for version control, leading to productive teamwork and facilitating effective tracking of codebase changes.

Certifications & Skills

- *Certifications:* Mastering Python (Udemy), IBM Introduction to Relational Databases (Coursera), Google Foundations, Data Everywhere (Coursera), IBM Machine Learning with Python (Coursera)
- *Programming Languages:* Python, Java, C, JavaScript, TypeScript, PHP
- *Frameworks:* Flask, Frozen Flask, React.js, Laravel, Express.js
- *Databases:* MySQL, PostgreSQL, MongoDB
- *Hard Skills:* Web development, UI/UX design, Github, HTML, CSS, Bootstrap, Figma