

# Edward New

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## EDUCATION

**University of California San Diego**, San Diego, CA

Expected Jun 2025

Bachelor of Science, Double Major in Mathematics-Computer Science and Data Science, GPA: 3.93

- Courses: Advanced Data Structures and Algorithms, Object-Oriented Design, Java Programming, Python Programming, Computer Organization and Systems Programming, Probabilistic Modeling and Machine Learning, Linear Algebra, Discrete Math, Multivariable Calculus
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## EXPERIENCE

**Design Co**, *Web Developer*, University of California San Diego

Feb 2024–present

- Collaborating with a team of 12 visual designers and developers to implement high-fidelity prototypes for UC San Diego's largest pre-professional design organization, successfully launching 2 projects so far.
- Refactoring legacy websites with modern server-side rendering techniques and developing an internal tool to streamline the social media workflow for the marketing team.

**A.S. Graphic Studio**, *Web Developer*, University of California San Diego

Dec 2022–present

- Spearheading web development initiatives for UC San Diego's undergraduate student government, successfully launching 5 projects to an online audience of 42,000+ viewers.
- Working collaboratively with a team of 6 UX/UI designers to transform intricate high-fidelity wireframes into vibrant and functional digital experiences.
- Enhancing user experiences by reducing site load speeds by over 95% using modern web optimization strategies.
- Employing progressive enhancement principles and responsive design techniques to guarantee a robust and engaging user experience across all devices.
- Implementing A11y accessibility standards, incorporating industry best practices to ensure all sites adhere to inclusive design principles and provide an accessible user experience for individuals with diverse abilities.

**Human Powered Submarine**, *Web Lead*, University of California San Diego

Apr 2022–Feb 2024

- Spearheaded the overhaul of an outdated website, resulting in a 150% increase in user engagement.
  - Developed with a mobile-first design philosophy, guided by analytics that indicate a predominant user presence on mobile devices, resulting in a 300% increase in satisfaction rate among mobile users.
  - Streamlined the development process by migrating the site from a convoluted dual repo structure to a more efficient mono repo, resulting in a 200% reduction in build times.
  - Wrote comprehensive documentation, contributing to a 20% reduction in onboarding time for new team members and ensuring project continuity.
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## PROJECTS

**TravelPix** – SoCalHacks Hackathon

Feb 2020

- Teamed up with 3 other developers to successfully build a full-stack web application in 24 hours that allows tourists to seamlessly share, comment on, and explore posts highlighting the best spots to visit during their trips.
  - Leveraged Google's backend as a service, Firebase, to efficiently manage user authentication and handle data, ensuring a secure and seamless experience for app users.
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## TECHNICAL SKILLS

**Programming:** HTML, CSS, JavaScript, Java, Python, C, C++, ARM Assembly

**Frameworks:** React, NextJs, Astro, Bootstrap, jQuery

**Technologies:** Git/GitHub, Sass, Jekyll, GSAP, Three.js, Figma, Firebase, Linux/Unix environments, Pandas, PostgreSQL, Dask, PySpark