

# Edward New

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## EDUCATION

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

Expected June 2025

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

- Relevant Coursework: Advanced Data Structures and Algorithms, Probabilistic Modeling and Machine Learning, Recommender Systems and Web Mining, Systems for Scalable Analytics, Database Systems, Computer Organization and Systems Programming, Object-Oriented Design, Java and Python Programming

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## TECHNICAL SKILLS

**Programming:** Python, Java, TypeScript, JavaScript, HTML/CSS, SQL, C, C#, C++, ARM Assembly

**Frameworks:** React, Next.js, Astro, Flask, Express, Bootstrap, jQuery

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

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## EXPERIENCE

**Out The Archive**, *Engineering Manager*, University of California San Diego

Sep 2024–Present

- Lead and mentor a team of 4 developers in designing and implementing a scalable full-stack website and personalized user dashboard portal.
- Architect high-level software solutions, including user authentication systems, secure database schemas, and CI/CD pipelines to streamline development workflows.
- Spearhead the development of a custom Content Management System (CMS) integrated with Notion APIs to optimize content organization and user management.
- Oversee strategic software architecture decisions, optimizing platform performance, scalability, and maintainability to support rapid user growth and operational efficiency.

**Data Smith Lab**, *Software Developer Researcher*, University of California San Diego

Sep 2024–Present

- Designed and implemented a full stack diagramming platform, enabling developers to visualize and customize data flows, including metadata attributes like storage period, encryption status, and stakeholder interactions.
- Developed a dynamic survey generation system, integrating backend support for custom routing, session management, and real-time response collection, eliminating reliance on third-party tools like Qualtrics.
- Enhanced developer workflows by introducing a scalable survey distribution and data visualization framework, supporting rapid iteration and experimentation for privacy-focused applications.

**Design Lab – ProtoLab**, *Software Developer Research Intern*, University of California San Diego

Jun 2024–Present

- Developed a full-stack web application to help academic researchers analyze and respond to peer reviews, incorporating dynamic scaffolding aids powered by GPT-4.
- Led user research efforts through study design and iterative development to optimize application features for peer review reflection, rebuttal drafting, and to-do list creation.
- Implemented custom user authentication, text annotations, and a text editor for notetaking and rebuttal drafting.

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

Feb 2024–Present

- Collaborating with a team of 12 designers and developers to implement high-fidelity prototypes for UC San Diego's largest pre-professional design organization, successfully launching 3+ projects so far.
- Developing a full-stack tool to streamline and automate the social media workflow for our marketing team.
- Refactoring legacy websites with modern server-side rendering and advanced caching techniques.

**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 7+ projects to an online audience of 42,000+ viewers.
- Working collaboratively with a team of 6 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.
- 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.