

EDUCATION

University of California, San Diego
Bachelor of Science in Computer Science

Graduation: May 2021

Activities and Societies:

- **Triangle Fraternity – President (2019-2021)** – Rebuilt the chapter from 0 to 6+ active members during COVID-19, implementing virtual engagement strategies to foster STEM community involvement. Awarded Outstanding Chapter President (2020-2021) for exceptional leadership and chapter growth

EXPERIENCES

Molecular Testing Labs | Software Engineer

Aug 2023 - Oct 2024

- Developed a HIPAA-compliant Laboratory Information System (LIS) with a scalable microservices backend, leveraging C#, .NET, Azure, and Kafka for inter-service communication
- Implemented modular architecture, database auditing, secure transmission, and event tracking to modernize health informatics and replace a legacy system
- Optimized SQL databases with indexing, query tuning, and normalization (1NF, 2NF, 3NF), reducing query time by 10% and storage overhead by 5%.
- Developed an operational dashboard integrating lab equipment, mapping layouts for clear UI visibility, reducing downtime, and optimizing machine usage.
- Integrated client APIs and optimized HL7 converters to standardize diverse client data formats, ensuring seamless healthcare data exchange and faster report turnaround.
- Worked in Agile sprints, collaborating with QA to resolve defects and ensure timely, high-quality releases.
- Partnered with cross-functional teams to define requirements and deliver modern, user-centric healthcare solutions.

Nexty | Freelance Software Engineer

Feb 2023 - Aug 2023

- Refactored a full-stack web app from ReactJS to Next.js, implementing server-side rendering (SSR) and static generation to improve page load times and SEO, reducing time-to-first-byte (TTFB) by 30%.
- Authored comprehensive code documentation, detailing API structures, component hierarchies, and deployment processes to accelerate onboarding for new engineers and reduce knowledge transfer bottlenecks.
- Integrated Jest and Cypress to establish end-to-end and unit testing workflows, increasing test coverage and catching regressions early, reducing production errors by 10%.
- Designed and implemented an intuitive navigation menu and interactive feature carousel, improving accessibility and user engagement by providing a seamless browsing experience across devices.

Dolthub | Software Engineer

May 2022 - Jan 2023

- Developed an end-to-end teams' permission system with a Go backend and GraphQL, implementing role-based access control (RBAC) to enforce fine-grained user permissions, improving security and collaboration.
- Designed and built the home and pricing pages for HostedDolt, ensuring brand consistency and optimizing the UI/UX to drive customer engagement and conversions.
- Enhanced SEO performance by automating Robots.txt and Sitemap.xml file generation, implementing structured metadata and keyword optimization strategies to increase organic search traffic.
- Reduced homepage load time by 2 seconds through dynamic imports, package size reduction, and minimized server calls, improving performance and user experience. Documented the optimization process for seamless replication.

Amgen | Associate Engineer

Jan 2022 - May 2022

- Maintained and supported 12 internal web applications built with TypeScript, Python, and Django, diagnosing and resolving production issues across frontend and backend services to ensure system stability and optimal performance.
- Collaborated directly with clients to gather requirements, plan new features, and resolve pain points, ensuring product enhancements aligned with business needs and improved user workflows.
- Led the development of a full-stack resource transfer application in a one-month Agile sprint, implementing a Django REST API and a TypeScript frontend to automate and streamline resource allocation.

HelloAdvisr | Jr. Developer Intern

Jul 2020 - Dec 2020

- Developed a full-stack web application using React and Firebase, enabling businesses to analyze and optimize pricing strategies through data-driven insights.
- Designed and implemented an intuitive UI/UX, creating clear, interactive displays to visualize the impact of pricing adjustments, improving decision-making for end users.
- Integrated Chart.js to build dynamic data visualizations, enhancing the app's usability by allowing businesses to interactively explore pricing trends and forecast outcomes.

SKILLS & INTERESTS

Languages/Tools: C/C++, C#, Javascript, Typescript, Python, CSS/CSS3, SASS, HTML/HTML5, SQL, GoLang, Tailwind

Technical: React, NextJs, GraphQL/Apollo, Kafka, Git, Linux, Firebase, NPM, Yarn, Vim, Visual Studio, Visual Code, gcc, ZenHub, NodeJs, Azure

Interests: Olympic lifting, Cooking/Eating, Reading, Star-gazing