

Duane Cabahug

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Education

California State University Northridge

B.S. in Computer Science (GPA: 3.56 / 4.00)

Expected May 2027

Northridge, CA

- **Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Discrete Structures, Advanced Data Structures, Automata Theory, Programming Languages
- **Involvement:** Member of Tau Beta Pi Engineering Honor Society; Member of Society of Software Engineers

Experience

Ventura County Department of Child Support Services

Software Engineering Intern

June 2024 – August 2024

Camarillo, CA

- Improved software consistency across 100+ machines by building automated SCCM deployment workflows that replaced repetitive manual updates and boosted reliability by more than 50%.
- Reduced recurring helpdesk issues by troubleshooting hardware and software failures, identifying root causes, and implementing fixes that increased system uptime.
- Upgraded outdated intranet pages by redesigning ASP.NET layouts, improving navigation, accessibility, and long-term maintainability for more than 200 internal users.
- Enhanced authentication reliability by working with Imprivata systems and coordinating upgrade schedules with technical teams to streamline daily workflows.

NextGen Hacks – ClubConnect

Software Engineer

October 2025

Northridge, CA

- Developed ClubConnect with a team of 6 to solve campus club engagement issues, delivering a fully functional platform, earning 2nd place at CSUN's NextGen Hacks.
- Built core features using Next.js, Tailwind, Shadcn-UI, PostgreSQL, and Supabase, creating a stable full-stack MVP ready for live demonstration.
- Implemented a unified posting system that connected Instagram and Discord APIs, allowing club leaders to publish announcements from one dashboard and cutting posting time by over 60%.
- Strengthened the project's impact by validating the core problem using CSUN engagement data, which showed that 40% of students build their networks through clubs.

Projects

TopicTutor | Next.js, Supabase, OpenAI, Tailwind

Personalized learning platform

October 2025

- Built an adaptive learning platform that generates personalized 10-chapter courses from placement tests, with chapter quizzes and mastery checks that adjust to user performance.
- Improved AI reliability by enforcing strict OpenAI output schemas, reducing malformed responses by over 70% and stabilizing course content, summaries, and assessments.
- Shipped secure Supabase auth, optimized Postgres schemas, RLS policies, and real-time analytics tracked across 100+ internal test sessions to validate learning flow and feature behavior.

ChatLink | HTML, CSS, React, Tailwind, Firebase

Real-time chat application

June 2025

- Built a real-time messaging application with Firebase for instant sync across devices.
- Implemented reliable auth and session handling to protect user chats.
- Designed a responsive React and Tailwind UI with live updates and persistent storage.

Technical Skills

Languages: JavaScript, TypeScript, Python, SQL, C/C++, Java, C#

Technologies/Frameworks: Next.js, React, Node.js, Express, Tailwind, Shadcn-UI, ASP.NET, PostgreSQL, Supabase, MySQL, Firebase, Git/GitHub, Vercel, Netlify, OpenAI API, Microsoft SCCM, Imprivata