

# 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/Algorithms, Computer Architecture, Discrete Structures, Advanced Data Structures, Automata Theory, Programming Languages

## Experience

### Ventura County Department of Child Support Services

Jun 2024 – Aug 2024

System Administration Intern

Camarillo, CA

- Automated software deployments and updates across 100+ machines using Microsoft SCCM, reducing manual workload and improving environment consistency by more than 50%.
- Diagnosed and resolved recurring hardware and software issues through the helpdesk system, sharpening debugging skills and improving operational uptime.
- Redesigned internal intranet pages using ASP.NET, improving usability, accessibility, and long-term maintainability for 200+ internal users.
- Supported secure authentication workflows with Imprivata and coordinated technical upgrades with cross-functional teams to enhance department-wide productivity.

### NextGen Hacks 2025 – ClubConnect

Oct 2025

Fullstack Developer

Northridge, CA

- Built ClubConnect with a team of 6 during CSUN's Society of Software Engineers hackathon, helping develop a platform that connects students with campus clubs.
- Developed full-stack features using Next.js, Tailwind, Shadcn-UI, PostgreSQL, and Supabase.
- Integrated APIs enabling clubs to post announcements to Discord and Instagram from one dashboard, reducing posting workload for club leaders by over 60%.
- Awarded 2nd place for solving verified campus needs, supported by data showing 40% of CSUN students build networks through clubs.

## Projects

### TopicTutor | Next.js, Supabase, OpenAI, Tailwind

Oct 2025

Personalized learning and assessment platform

- Built an end-to-end adaptive learning platform where users take placement tests, generate personalized 10 chapter courses, and complete chapter quizzes and mastery checks.
- Engineered strict output schemas for OpenAI, reducing malformed responses by over 70% and improving consistency across chapters, summaries, and test results.
- Developed secure Supabase auth, Postgres schemas, RLS policies, and real-time progress analytics with streak tracking and activity charts used across 200+ test runs.

### ChatLink | HTML, CSS, React JS, Tailwind, Firebase

Jun 2025 – Jul 2025

Real-time chat web application

- Built a real-time chat app using Firebase for fast messaging and seamless sync across devices.
- Implemented secure authentication and stable session handling to protect user conversations.
- Designed a responsive React and Tailwind UI with instant updates and persistent message storage.

## Technical Skills

**Languages:** JavaScript (ES6+), TypeScript, Python, SQL, C/C++, Java, C#

**Web/Frameworks:** Next.js, React.js, Tailwind CSS, Shadcn-UI, Node.js, Express.js, ASP.NET

**Databases:** PostgreSQL, Supabase, MySQL

**Tools/Platforms:** Git/GitHub, Vercel, Netlify, Firebase, OpenAI API, Microsoft SCCM, Imprivata

**Concepts:** Full-Stack Development, REST APIs, Authentication/Authorization, Prompt Engineering, Schema Validation, Responsive UI Design, Data Structures & Algorithms, Software Development Lifecycle