

ALEX STRAIGHT

Software Engineer

PROFESSIONAL SUMMARY

Web developer passionate about combining creativity with engineering to build efficient, scalable applications. Skilled in **React** and **Next.js**, with experience in projects like a **pathfinding visualizer** and a **real-time Pictionary app** using **Go** for WebSocket communication. Dedicated to solving complex problems and staying current with industry trends.

SKILLS

TypeScript, Python, Go, React, Next.js, CSS, Tailwind CSS, HTML, Framer Motion, Shadcn UI, Prisma, Auth.js, WebSocket, Fabric.js, API Integration, Problem Solving, User Experience, Version Control, Responsive Design.

EMPLOYMENT HISTORY

TEACHERS ASSISTANT *San Diego State University*

May 2024 - Present
San Diego, California

- ◆ Conducted personalized one-on-one sessions with students, fostering a dynamic learning environment that boosted engagement and improved academic performance.

FRONT END ENGINEER INTERN *Academic Assist*

Mar 2024 - May 2024
San Diego, California

- ◆ Optimized frontend performance, increasing user engagement and accelerating site speed through improvements in design and functionality.
- ◆ Applied SEO strategies in Next.js, leading to better search rankings and increased user acquisition.

FRONT END ENGINEER CONTRACT *San Diego State University*

May 2024 - Aug 2024
San Diego, California

- ◆ Enhanced university platform UX, boosting mobile engagement and accessibility.
- ◆ Implemented responsive design, improving web accessibility and user functionality.

PROJECTS

PATHFINDING VISUALIZER

- ◆ Visualizes pathfinding algorithms with an interactive interface, built using **React**, **Next.js**, and **TypeScript** for reliability.
- ◆ Used in a Data Structures and Algorithms course at **San Diego State University**.

PICTIONARY WITH FRIENDS

- ◆ Interactive canvas with real-time free-hand drawing and shapes using **Go** for WebSocket communication, **Fabric.js**, and **Framer Motion** for animations.
- ◆ In Progress: Adding leaderboards to track player stats using **serverless functions** in **Next.js** and **cron jobs** with **Go**.

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE *San Diego State University*

Aug 2021 - May 2025
San Diego

- ◆ 4.0 Major GPA
- ◆ Research Assistant: Optimized NOMA systems with IRSs using the BFGS algorithm to enhance signal data rates.

LINKS

Portfolio: www.alexcodes.io, Github: github.com, LinkedIn: www.linkedin.com, Project: algo-visualizer-nine.vercel.app,
Project: pictionary-tan.vercel.app.