Alex Straight

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PROFILE

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

ⓘ **TECHNICAL SKILLS**

- TypeScript
- Go
- React
- Next.js
- Tailwind CSS
- HTML
- Framer Motion
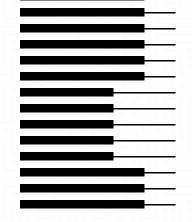- Prisma
- WebSocket
- Fabric.js
- API Integration
- Problem Solving
- User Experience
- Version Control

EMPLOYMENT HISTORY

📅 03/2024 – 05/2024   📍 SAN DIEGO, CALIFORNIA

Front End Engineer Intern
Academic Assist

- 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.
- Enhanced university platform UX, boosting mobile engagement and accessibility.

📅 05/2024 – 08/2024   📍 SAN DIEGO, CALIFORNIA

Front End Engineer Contract
San Diego State University

- Implemented responsive design, improving web accessibility and user functionality.

PROJECTS

Pathfinding Visualizer
- Visualizes pathfinding algorithms with an

PROJECTS

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**.

Discord Bot
- Built a **Discord bot in Go** with AI chat, news updates, and real-time sports data using the SportRadar API.
- Implemented **concurrent song queue management**, allowing seamless background music downloads and playback.
- Integrated **cron jobs** for automated tasks and scheduled updates.
- **OpenAI** API integration.

EDUCATION

📅 08/2021 – 05/2025   📍 SAN DIEGO, CALIFORNIA

Computer Science | Bachelor of Science
San Diego State University

- **Dean's List** (3x) – Recognized for academic excellence with a **3.8 Major GPA**.
- **Pathfinding Visualizer** – Developed an interactive visualization tool for **data structures and algorithms**, currently used in a course.
- **Research Assistant** – Optimized **NOMA systems with IRSs** using the **BFGS algorithm** to enhance signal data rates.
- **Teaching Assistant – Data Structures & Algorithms**
- Assisted students with algorithm implementation and problem-solving.
- Held office hours and graded assignments for foundational CS concepts.