ALEX STRAIGHT

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PROFESSIONAL SUMMARY

Talented web developer passionate about merging creativity with engineering principles to craft user-friendly and efficient web applications. My expertise in React and Next.js has been instrumental in developing a range of projects from an AI math tutoring platform and a pathfinding visualizer to cloning the Linktree app. Currently, I am delving into AI research focused on vulnerabilities and assisting a professor in developing a website for her class. Committed to staying at the forefront of industry trends, I aim to solve complex problems creatively and make a meaningful impact through my work and personal projects.

SKILLS

- TypeScript
- Prisma ORM
- Next.js
- Tailwind CSS
- React.js
- HTML5

EXPERIENCE

Front End Engineer   March 2024 - Current
Academic Assist | Chula Vista, CA
- Using Next.js 14, TypeScript, React, Tailwind CSS, Framer Motion and Shadcn UI.
- Working with UI designer to rebuild landing page.

STEM Pathways Scholar   June 2023 - August 2023
SAN DIEGO STATE UNIVERSITY | San Diego, CA
- 1 of 11 scholars selected to participate in a mentor transfer pathway program
- Pioneered a study on optimizing NOMA systems using Reconfigurable Intelligent Surfaces (RIS)
- Developed Python algorithms for RIS-enhanced NOMA environments, improving channel capacity
- Presented 'Reconfigurable Intelligent Surfaces' at SACNAS National Conference- October 2023

EDUCATION

B.S. in Computer Science   May 2025
San Diego State University, San Diego

PROJECTS

Math Base - Powered by GPT -4 and Wolfram Alpha
- **Features:** Integrated GPT-4 and Wolfram Alpha, developed with Next.js 14, TypeScript for type safety, database, and auth systems.
- **Link:** https://math-base-ai.vercel.app/

Link Tree Clone - Personal Web Link Aggregator
- **Features:** Clone with responsive design, Next.js routing, TypeScript for type safety, customizable user links, secure authentication.
- **Link:** https://ltree-clone.vercel.app/

Pathfinding Visualizer   - Interactive Algorithm Visualizer

- **Features:** Visualizes pathfinding algorithms, built with React and Next.js, TypeScript for code reliability, interactive user experience.
- **Link:** https://algo-visualizer-nine.vercel.app/