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## Career Objective

As a third-year Computer Science major at San Diego State University, I've developed a keen interest in web development, particularly in React and Next.js. My aim is to create user-friendly, efficient web applications, staying abreast of the latest industry trends. For me, web development is not just about coding; it's about creatively solving problems and achieving meaningful impact in my work and personal projects. Check out my work through my Personal Portfolio

#### Skills

Next.js, TypeScript, React.js, Prisma ORM, Next Auth, OAuth, Tailwind CSS, HTML5

#### Education

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

### Research Experience

STEM PATHWAYS SCHOLAR, SAN DIEGO STATE UNIVERSITY — JUNE 2023 - AUG 2023 \$4,000 stipend

- 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

# Professional Experience

• Working with one of my professors to develop her website for her Data Structures and Algorithms Course - (Present)

# Self-Developed Projects

PATHFINDING VISUALIZER

- Pathfinding algorithm visualizer featuring, A\*, Dijkstra's, Best-first Search, Breadth-first Search, Depth-first Search, Beam Search, Jump Point Search, Theta\*. (completed)
- Technologies: TypeScript, React, and Tailwind CSS, deployed using Vercel.

#### Math Base

- All powered application specialized for solving math problems, providing explanations, with formatting and exporting. Using tesseract to parse text from images.
- Technologies: Next.js, React, TypeScript, Prisma, MySQL, Planet Scale, GPT api, Wolfram Alpha api.