

PATHFINDER

CMSI 4071: Senior Project I

OUR TEAM



Maddie McDowell

UI Designer
&
Frontend Wizard



Patrick King

Project Manager



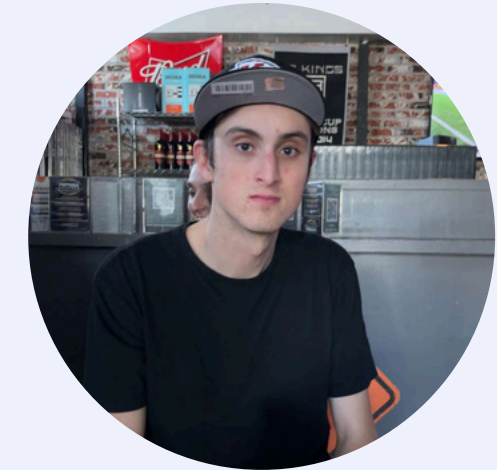
Nic Ortiz

Frontend Wizard



Sam Prosser

Backend Developer



Thomas Powell

Backend Developer

OVERVIEW



Pathfinder is an all-in-one career development web application designed to guide users through every stage of their professional and educational journey.

FEATURES

- Career Questionnaire
- Resume Analysis
- User Dashboard
- Cover Letter Generator
- Job Matching
- AI-Assisted Chatbot
- Learning Resources
- Networking Tools



TECHNOLOGIES USED/PLANNING ON USING

Frontend: HTML, CSS, JavaScript, Figma

Backend: Python, Node.js

Database: Google Firebase

AI/ML: OpenAI API

Cloud Services: Google Firebase, AWS, etc.

APIs: RESTful APIs, OpenAI API



FIGMA USER DASHBOARD DESIGN



Pathfinder

Welcome, Maddie



Documents

Madison McDowell



✉ maddiemcdowell16@gmail.com ☎ 760-505-5835

Highly motivated college student pursuing a Bachelor of Science degree in Computer Science and a minor in Data Science and Statistics seeking internship opportunities where I can utilize my emerging knowledge of programming and gain valuable experience to develop my skills

Relevant Coursework

Calculus I, Calculus II, Applied Statistics, Discrete Math, Probability and Statistics, Applied Linear Algebra, Data Science, Python Programming, Data Structures, Algorithms and Analysis, Artificial Intelligence, Web Application Development, Mobile Application Development, Interaction Design (UI/UX)

Education

Loyola Marymount University 2021-2023

- Bachelor of Science, Computer Science | Minor in Data Science and Statistics
- GPA: 3.77

Experience

Loyola Marymount University Data Entry Assistant *September 2024-Present*

- Update and maintain email contact lists for SOE and the Office of the Dean in MS Excel or similar software
- Perform administrative tasks related to SOE communications and events

- Full stack intern specializing in front end design utilizing Figma, backend admin and server support, and front end web application development
- Combined passion for helping the special needs community with my emerging skills in the technical field

Loyola Marymount University American Sign Language Assistant Educator *March 2023-May 2024*

- Develop lessons for teaching ASL and Deaf culture to staff, students, and faculty on campus
- Create content for LMU's Student Success's social media platforms
- Collaborate with team members during the lesson development process

Google Computer Science Summer Institute Participant Summer 2021

- Participated in a 4-week intensive computer science summer program for high-achieving students
- Completed an introductory project-based JavaScript curriculum taught by Google engineers
- Configured 14 individual and collaborative coding projects in JavaScript by using concepts such as variables, arrays, classes, and functions

Leadership Experience

Delta Gamma Fraternity Director of Interfraternal Activities *January 2023-Present*

- Manage a tight budget for two events with over fifty attendees each and obtain deliverables during the event planning process
- Collaborate efficiently with Chapter President, VP of Finance, and VP of Social Standards

Skills

- JavaScript
- Java
- Python
- Swift
- R
- SPSS
- Linear
- GitHub
- Figma
- Google Workspace & Microsoft Office

Suggested Jobs

← data analytics internships

 San Diego, CA

Showing 2 of 56 results



Internship - Data Science & Engineering

ASML
San Diego, CA



Intern II - Test Engineering and Data Analysis

Dexcom
San Diego, CA



All results

Chat with Pathfinder

Show me data analytics internships in San Diego

Certainly! I found 56 data analytics internships in San Diego, CA that match your education and skills from your résumé. Click on the job search tab to learn more.

Thank you!



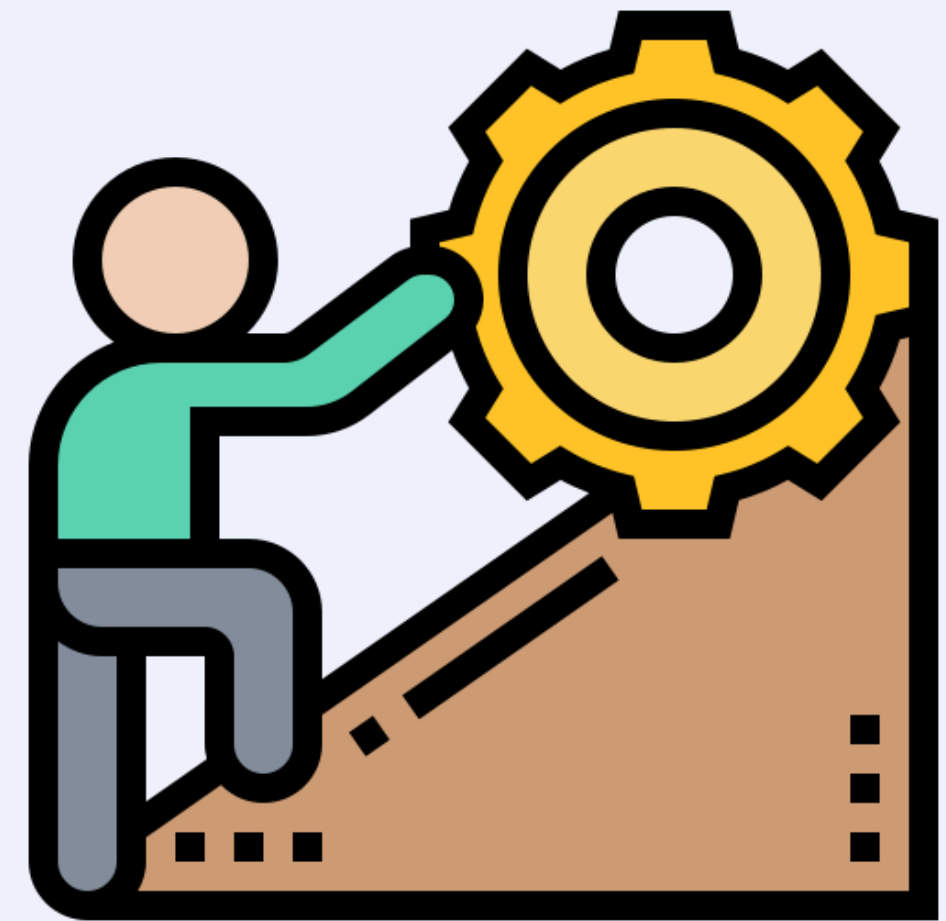
WHY PATHFINDER?



- **Comprehensive Career Guidance:** Offers personalized career paths, resume analysis, and job matching in one platform.
- **AI-Powered Features:** Utilizes cutting-edge AI for career advice, job recommendations, and an intuitive chatbot assistant.
- **User-Centric Design:** Prioritizes usability, accessibility, and responsive design for seamless navigation across devices.
- **Secure and Reliable:** Implements strong data protection measures to ensure user information remains confidential.
- **Market Gap Solution:** Bridges the disconnect between traditional job boards and personalized career development tools.
- **Efficient and Accessible:** Simplifies the transition from education to employment, catering to diverse user needs.

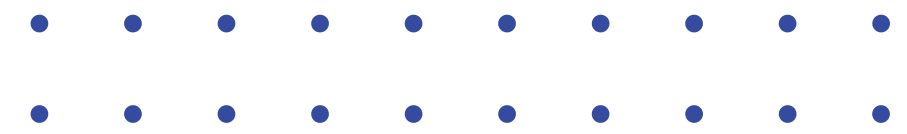
CHALLENGES FACED

- **Getting Started with Coding:** Establishing the initial codebase and integrating the front-end and back-end was challenging and required significant collaboration and troubleshooting.
- **Team Coordination:** Managing diverse roles, schedules, and communication to keep everyone aligned and productive throughout the project.
- **Feature Selection:** Deciding which features to prioritize for the initial implementation while ensuring the platform remained impactful and user-friendly.
- **Designing the UI/UX:** Crafting an interface that was visually appealing, intuitive, and accessible across devices required multiple iterations



NEXT-SEMESTER PLANS

- **Completing All Code and Pending Features:** Finalize the implementation of core functionalities that were not completed this semester, ensuring the platform is feature-complete.
- **Enhancing Performance and Scalability:** Optimize the platform to handle larger user volumes, ensuring fast load times and a seamless experience as the user base grows.
- **Adding New Features:** Introduce advanced career analytics, interview preparation tools, and expand the AI chatbot's capabilities to provide even greater value to users.
- **Connecting to More Databases:** Integrate with additional job boards and external resources to offer users a more comprehensive range of career opportunities.



THANK YOU

Questions?