**Tech Internship Matchmaker**

**Scope + Core Features:**

***Scope*** – A platform that helps computer science students find internships. The app will match students’ skills and interest with potential employers and provide application tips, interview preparations and career advice.

***Core Features*** –

1. **Student Profiles** – Allow students to create detailed profiles showcasing their skills, projects, GPA and work preferences.
2. **Employer Profiles** – Showcase companies to highlight their industry, culture and internship opportunities.
3. **Resume + Project Uploads** – Provide a feature for students to upload their resumes and other relevant documents/projects.
4. **Matching Algorithm** – Develop an algorithm that matches students with internships based on their skills, interests and preferences.
5. **Job Listings** – Allow companies to post job listings.
6. **Track Applications** – Create a system to show student’s progress in regard to applications
7. **Notifications**
8. **Chat System** – Allow for students and employers to chat together through a live system.

**Tech Stack:**

***Frontend:***

* **React.js** – JavaScript Library for building user interface
* **Tailwind CSS** - Design attractive and responsive UI components

***Backend:***

* **Node.js with Express** – Node.js is a runtime environment that allows you to run JavaScript on the server side. Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web applications.
* **MongoDB** – a NoSQL database that’s good for handling flexible, document-oriented data. It pairs well with Node.js.

***Authentication:***

* **Passport.js** – This is middleware for Node.js that makes it easy to handle user authentications. It supports various authentication strategies, including OAuth and local username + password.

***Hosting:***

* **Heroku** – Offers a free tier for deploying small projects. Integrates with Git for continuous deployment.

***Version Control:***

* **Git** - Essential for version control, allowing changes to source code over time.

**Timeline:**

***Week 1: Project Planning and Research (Completed 3/23/2025)***

* Define project scope and objectives
* Conduct user research to gather basic requirements

***Week 2: System Design and Development Setup***

* Rapid design of UI/UX Wireframes.
* Set up development environment and begin backend setup.

***Week 4-5: Core Functionality Development***

* Develop critical features
* Start basic frontend development.

***Week 6: Integration and Testing***

* Integrate frontend with backend
* Conduct essential testing and bug fixing.

***Week 7: Deployment and Launch***

* Deploy the application on a suitable platform
* Receive user feedback and repeat cycle of iterations