Project Plan
AI Project Matcher

The Capstone Experience

Team Dow
Liam Bok
Jon Gorman
Ana Kim
D'errah Richardson

Department of Computer Science and Engineering
Michigan State University
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Functional Specifications

• Match employees to projects
• Match projects with employees
• Match recommendations based on:
  ▪ Employee's current skills
  ▪ Project's desired skills
  ▪ Availability
  ▪ Employee's desired roles
Design Specifications

Both Employee and Project Manager accounts will have:

• Profile View
  ▪ Create/edit account

• Matching View
  ▪ Search for projects/employees

• Matches View
  ▪ Review matches and contact
Screen Mockup: Employee Profile
Screen Mockup: Project Profile

Project Name: AI Research and Development
Start Date: 3/12/2020  
End Date: 6/23/2020
Project Manager: Sydney Townsend
About the project...

Project Impact:
This project will set the foundation for...

Desired Role(s): Data Engineer
Desired Skills: Python, Azure

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Screen Mockup: Project Matching
Screen Mockup: Employee Matching

- **William Rogers**
  - AI Systems Engineer

- **Personal Description:**
  - I have been an AI Systems Engineer here at Dow for 7 years and I am looking to find a new project that will utilize my experience as well as allow me to grow.

- **Desired Role(s):**
  - Front End Developer
  - Back End Developer
  - AI Systems Engineer

- **Desired Skills:**
  - Python
  - Azure

- **Available Hours:** 200

- **Start Date:** 3/21/2021
- **End Date:** 7/27/2021

- **Options:**
  - Not Interested
  - Interested
Screen Mockup: Employee Matches
Screen Mockup: Project Matches
Technical Specifications

• Mobile (Android & iOS)
• Front end – Node.JS, React Native
• Back end – MySQL, Azure
• Recommendation Algorithm
  ▪ Tags and Weights
System Architecture
System Components

• Hardware Platforms
  ▪ Windows OS
  ▪ Mac OS

• Software Platforms / Technologies
  ▪ React Native
  ▪ NodeJS
  ▪ MySQL
Risks

• Unexpected Behavior
  ▪ Recommendation engine will not behave in a predictable way
  ▪ Use a weighting system to keep track of behavior

• Wide Variety of Projects
  ▪ Creating an AI that will be able to suggest user submitted projects
  ▪ Use a tag system to keep projects simple and add more as development progresses

• Connect to Azure SQL Database
  ▪ Cannot gain access to Dow's Azure environment
  ▪ Setting up and testing our own environment as soon as possible
Questions?