Team 1 CSC 4350:

Software Engineering

Dr. Rao Casturi

**Team Members:**

1. Ravier Konan
2. Ma Juarez
3. Taylor Duncan
4. Cesar Spaniol
5. Raktim Biswas

Project Name: **Ignition**

**Project Description**

**Introduction**

Nowadays, it might seem there are countless jobs to choose from, but the reality is that high-paying jobs are difficult to obtain, more so when you have no practical experience. Although many job application platforms exist, the most common problem is having the Application Tracking System drop your application.

Our idea is to help graduates navigate their job hunt by creating a job application board designed for recent graduates. Our team will reach out to companies specifically looking for recent graduates and give them the opportunity to post their job on our platform. Each company will have an account that allows them to post jobs, view applicants, and conduct interviews directly through our platform.

Applicants will have the ability to filter jobs by company and other criteria such as availability, job title, skills/majors, compensation, tuition reimbursement, etc. They will be able to see which companies are holding events, view programs for recent graduates, subscribe to company notifications, and track their applications.

Our end goal is to eliminate the struggle of browsing the job market without prior job experience. Therefore our application is call “Ignition”; we launch job seekers’ careers.

**Technologies**

Our client-side interface will be a web page designed with HTML, CSS and JavaScript implementing responsive design to facilitate a mobile experience. The frontend will be connected through Flask, a Python Web Application Framework based on the Werkzeug WSGI (Web Server Gateway Interface) toolkit and Jinja2 template engine. We decided to use Flask because it requires minimal lines of code, it’s easy to maintain, and since it is a python language expanding the scope of our app is readily available by using python libraries. The backend will communicate with a MySQL database storing all applicants’ data. For version control we will be using Git, GitHub and Azure DevOps to track backlog. Our main IDE will be Visual Studio Code because it’s cross platform, and easy to extend with many plugins.

* Programming Languages: Python, Flask, HTML5, CSS3, Firebase
* Graphic design: Photoshop, Adobe XD
* Version Control: Git, Azure DevOps
* Database: MySQL, SQL
* IDE : Visual Studio Code

**Team-Bio Data**

**Ravier Konan:** is a senior computer science student at Georgia State University and has more than three years of programming experience. He possesses a strong knowledge in Web Development with technologies like HTML, CSS, JavaScript and PHP. He as a moderate knowledge of .Net, C# and Python. He has worked in some startup and is currently doing an internship as Software Test Engineer Intern, working on an embed application written in C#. Ravier is organized, detail-oriented, and like to anticipate task, which make him a right fit for an Solution Architect.

**Maria Juarez:** is a senior CS student at GSU with a couple of years of school related programming experience. Maria has moderate knowledge of Java, HTML, PHP and is also familiar with MySQL. She has done a couple front-end and back-end assignments/projects through GSU courses such as web development class, mobile app development, and operating systems. She is interested in learning more about back-end development. She is also organized and has great time management skills.

**Taylor Duncan**: is a Senior computer science student at GSU and has about 4 years of experience. She has decent experience of Java and Python and is familiar with things like C and SQL. Taylor has had experience with making projects with Python and Java in the past and is generally interested in learning many of the new technologies that will be applied in this project and that have to do with Databases.

**Cesar Spaniol**: is a senior computer science student at GSU that has four years of experience. Cesar has moderate/intermediate knowledge of Java, HTML, CSS, Python, JavaScript, and C/C++. He is also familiar with reach, SQL, PHP and AWS. Cesar has worked in front-end development since 2012 and is knowledgeable on multimedia illustration. Cesar is interested in the integration of different front-end and back-end languages that will be used in this project.

**Raktim Biswas:** is a senior mathematics student at GSU with a concentration in computer science. Raktim is primarily experienced with Python & MATLAB through projects that demonstrate numerical methods and is familiar with Java, C, and SQL. Raktim is interested in learning about how statistics and data science blend principles of mathematics and computer science. Raktim hopes to learn about front/back end development throughout this course to improve his programming knowledge.

**Why did we pick this project?**

We chose this project because it requires us to understand and implement a variety of technologies and principles to deliver an efficient product; this process will facilitate a well-rounded learning experience. Additionally, we envision our project assisting real people struggling to find a job; rather than use a service that scrapes jobs from across the internet and funnels your application through an automated middle man, our project will allow employers and applicants to tailor their search to their needs for a direct hire.