

# Project Proposal

## 1. Title of Project:

*Internship Management Tool*

## 2. Description/Goals of Project:

The project is going to be a web application that is intended to help students secure internships in their major. This application will bring the students, and the companies, together in one platform, in which each will be able to perform some operations. What each member can do on our website is briefly described in the following paragraphs.

As for the student: Students can make a profile in which they can add their personal information. For showcasing their skills, they can create portfolios in which they can upload their resumes, projects, and references. Students can see the internships offered by the companies in their majors and apply.

As for the companies: Companies can register and create their own account. Responsible people from the companies will be able to add their internship posts (not jobs) including some information about the company, internship details, contact information, application dates, etc. Employers will have access to students' portfolios. If they like a student's portfolio they will be able to contact that student.

I will build the project from scratch, with the two main actors, namely, the student and the company, using object-oriented programming. I will develop and create the necessary database. Several design patterns will be implemented. Canonical URL and Rewrite concepts will be used. The project will be built based on the MVC design. The application has been started before in the System Development course with two other classmates, but it has never been completed. Only the student part was implemented in procedural PHP and without any design pattern.

I believe that this application would be a very useful tool for securing internships. Using this program will facilitate the internship search process for students, as well as help employers find suitable students for their internship openings. This is a brief description of my idea. If there is any part(s) that needs more clarification, I will be happy to do so.

### **3. Technologies and Development Concepts that will be used:**

Front-end: HTML, CSS, JavaScript, Bootstrap

Back-end: Object-Oriented PHP

Database: MySQL

Cross-platform web server solution: Mamp

Software architectural design: MVC

Design Patterns: Singleton, Builder, Factory

IDEs: PhpStorm

### **4. Outcomes / Learning goals:**

The project is challenging and requires a lot of time, study, resources. Such a project would take approximately 2 – 3 months to complete. I will learn:

- Building and developing a full web application from scratch in object-oriented programming, including front-end and back-end.
- Connecting to the database, DBMS
- Implementing software architectural design MVC
- Using Singleton, Builder, Factory design patterns
- Applying the CRUD (Create, Retrieve, Update, Delete) concept

### **4. Student:**

Abram Girgis, 2195413

Student in AEC: Software Development

Vanier College

### **5. My Supervisor:**

Adin Ashby, College Professor

Vanier College