

CEN4010 - Principles of Software Engineering

# Project Proposal

## SOAR - A Resume Builder

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### Group Members

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## Executive Summary

Our project is based on the principle needs surrounding our educational system and the ubiquitous role that technology has come to fill in this century in fulfilling those needs. Students are graduating at high numbers, and jobs are high in demand to meet this consistent supply. Our project aims to remedy the organizational infrastructure of our University's career center, by providing a streamlined online resume process that is directly connected to a relational database for both easy extrapolation of the data and rapid filtering of results so our career center technicians can quickly and easily pinpoint the precise candidate called for out of our very own University student body with every career opportunity that comes to us.

Together as a team, we will create a functioning resume platform that will be built upon the LAMP stack. Utilizing HTML5 and CSS3 we will create the framework and skeleton of the resume. Following that, we will instantiate a relational database using MySQL database. This database will have many tables and relationships between data sets and will provide a body of data that can be accessed rapidly upon request. Upon successful completion, we will code our PHP to transfer data to and from the client-side and server-side of our application. Lastly, we look to integrate javascript to smooth out the UX in our application, providing rich interactivity for all users.

## Competitive analysis

LiveCareer Resume Builder	Soar
Takes user input and formats into a resume	Takes user input and formats into database
Customizable output with preselected bases	Pre-formatted output generated from database information
Built for a general audience	Targeted towards Computer Engineering/Computer Science students
No functional uses after resume created	Provides a search feature for use by schools' career center and prospective employers for students
Largely manual data entry with few auto-fill options	Smaller audience allows larger number of preset field values.

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The advantages of SOAR largely lie in its much more focused user base, which allows it to be specifically tuned to fill out many of the potential degrees and experience one may have acquired during their time at FAU. The ability for local companies to find and narrow down potential student applicant through the resume database or through the career center using the tool will prove an invaluable resource for students seeking jobs. Although competitor tools may provide further customization options for paper resumes, our system plans to skip much of the tediousness of examining resumes for potential employers, making the search provide well formatted and concise data on any potential students.

## **Overview and Scenarios**

SOAR will have 2 main categories of users: those who wish to enter the database with a resume of their own, and those who will seek out applicants quickly and effortlessly. A student preparing to enter the workforce in his junior or senior year will be eager for experience to pad his resume with, making him more desirable to companies in his desired career. By adding himself to the database through the easy to use interface he will be able to expose himself to a variety of local companies who choose to use the tool, and increase his chances of finding the career opportunities he seeks. In addition the student will be provided with a digital copy of his resume, to help him pursue further opportunities. On the other side of things, a local employer may find himself in need of further assistance with a project, and would wish to hire another person onto the job to train and build up. Through either direct use of the tool or through the FAU career department he could specify his desired traits for an employee, such as experience, specific knowledge, and degree path and find a student fitting the requirements he is searching for.

## **Initial list of high-level functional requirements**

There will be a couple of tables to hold user information as they complete the form. Values for the different preset values that can be selected by the student. Each entry type should accommodate the most common possible values to increase ease in the filling process, but also allow for more uncommon options for skills and experience that the student may possess. At the end of the process the student should be able to retrieve a

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digital copy the generated resume, in an editable document format that can be customized to the students desire.

For the career center and recruiter interface, the application should allow filtering by multiple different parameters, allowing the results to display students that fit their desired profile. Each result should display the full contents of the student's resume and allow for an email to contact the student about possible internship or employment opportunity.

A mobile interface is not a necessary feature as most of these operations are not performed "on the go".

A possible feature, is a weekly email for students that had their resumes viewed with a total number of views on their resume, allowing students to adjust their information or boost their skills if they have many views but few contacts, allowing personal improvement that may improve their chances of jump starting their professional careers.

### **List of non-functional requirements**

Any information submitted by the user should be processed, stored, and posted in no more than two to three seconds from submission. After logging in the user should be able to quickly access the information in they have submitted for deletion, editing, or simply viewing since it is not a large chunk of data to process and most of the . The user should be able to access their personal information and the recruiter should be able to view basic information that matches their search credentials. The search should take no longer than a few moments as it is simply matching search credentials where they are submitted, and regarding the unsubmitted credentials as superfluous, therefore focusing on bringing up any resume that matches data submitted. Access to the database should be secured, and searching should be restricted by login and password for students privacy. Authentication for the students should be available in case the resume needs to be edited.

### **System development infrastructure**

The main languages that will be used in this program will be "php" and "MySQL" for server data management and storage as well as and login management. "HTML" and

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“CSS” will be used primarily for creating the layout of the page, the appearance, and the aesthetic. For functionality the two languages utilized will be “javascript” and “jQuery”. There will be no framework initially. The application will be W3C compliant, adhering to modern best practices. There are no plans for using existing code templates, although as mentioned, javascript libraries such as jQuery and similar may be used to enhance user experience.

## Team

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| 1. | Jacob Pack     | Developer #1      |
| 2. | Jagger Thom    | Owner/Team Leader |
| 3. | Cameron Herwig | Developer #2      |
| 4. | Felipe Soares  | Scrum Master      |
| 5. | Erik White     | Developer #3      |

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## Deliverables

Task	Priority		Tentative Delivery
Database Setup	1	Sprint 1	10/31/2016
Main user (student) interface	2	Sprint 1	10/31/2016
Search interface	3	Sprint 1	10/31/2016
Database Design	4	Sprint 1	10/31/2016
Profile viewing page interface	5	Sprint 1	10/31/2016
Login page interface	6	Sprint 2	11/7/2016
UX (CSS & Graphics)	7	Sprint 2	11/7/2016
Recruiter contact email form	8	Sprint 2	11/7/2016
Main user interface functionality	9	Sprint 2	11/7/2016
Search query design	10	Sprint 2	11/7/2016
Search functionality	11	Sprint 3	11/14/2016
Profile viewing page functionality	12	Sprint 3	11/14/2016
Login page functionality	13	Sprint 3	11/14/2016
Login encryption	14	Sprint 3	11/14/2016
Responsive interface (Javascript)	15	Sprint 3	11/14/2016
File export feature	16	Sprint 4	11/21/2016
Recruiter contact email functionality	17	Sprint 4	11/21/2016