

# CVuild: Resume Builder

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# TABLE OF CONTENTS

<b>CHAPTER I – PROJECT DEFINITION .....</b>	<b>2</b>
Introduction .....	2
Project Case .....	2
Objectives .....	2
Scope and Limitation .....	3
Methods Used in the Project .....	3
Gathering Tools Used .....	3
Engineering Paradigm/Process Model .....	3
Project Organizational Structure .....	4
<b>CHAPTER II – PROJECT DESIGN .....</b>	<b>7</b>
System Screenshots .....	7
Figure 1. Landing Page .....	7
Figure 2. Log-in Page .....	8
Figure 3. Account Creation Page .....	9
Figure 4. Home Page .....	10
Figure 5. Personal Information Page .....	11
Figure 6. Educational Background Page .....	12
Figure 7.1. Experience Page .....	13
Figure 7.2. Additional Experience Page .....	14
Figure 8. Leadership and Activities Page .....	15
Figure 9. Skills and Interests Page .....	16
Figure 10. Resume Template Page .....	17
Figure 11.1. Preview Page .....	18
Figure 11.2. Preview Document Window .....	19
Figure 12. Save Resume Window .....	19
Figure 13. End Page .....	20

## **CHAPTER I – PROJECT DEFINITION**

### **Introduction**

In today's competitive job market, a professional and well-crafted resume is essential. Many job seekers, especially those new to the workforce, struggle to effectively present their skills and experiences. Crafting an impressive resume is tough and time-consuming, particularly for those lacking experience or resume-building know-how. Existing tools often prove overly complex or costly for beginners, posing a significant barrier to securing desired jobs. To address these problems, CVuild was created.

CVuild is a Java-based desktop application that simplifies the resume-creation process for job seekers, students, professionals, freelancers, and career coaches. The program offers a simple, effective, and complete tool for writing professional resumes. CVuild's scope includes the establishment and management of user accounts, as well as the input of personal information such as schooling history, work experience, leadership activities, talents, and interests. Users can browse and download their resumes in document format. The software seeks to empower users by streamlining the resume preparation process, allowing them to successfully demonstrate their qualifications and advance their professional careers.

CVuild is designed to help individuals, particularly those who are just starting out their professional journey, create compelling and concise resumes with ease. It eliminates a potential barrier to entry in the job search by simplifying the resume-building process, enabling users to present their qualifications properly and streamline the process of acquiring their desired occupation.

### **Project Case**

#### **Objectives**

CVuild aims to empower people by providing a user-friendly platform for creating professional and customizable resumes.

Specifically, it aims to achieve the following:

1. Streamline Resume Creation

- 1.1. Streamline the resume creation process for entry-level job seekers through an intuitive user interface.
2. Efficient Resume Formatting
  - 2.1. Reduce the time spent on resume formatting and designing and adhere to resume standards through utilizing sophisticated resume templates.
3. Minimal Resume Corrections
  - 3.1. Minimize common resume-writing mistakes made by inexperienced job seekers.

### **Scope and Limitation**

CVuild focuses on making the resume creation process easier. Users will include their employment history, schooling, abilities, and accomplishments. The software will next arrange this data into a polished resume style that works with document file format.

### **Methods Used in the Project**

#### **Gathering Tools Used**

The following are the tools used in the creation, development, and implementation of the software.:

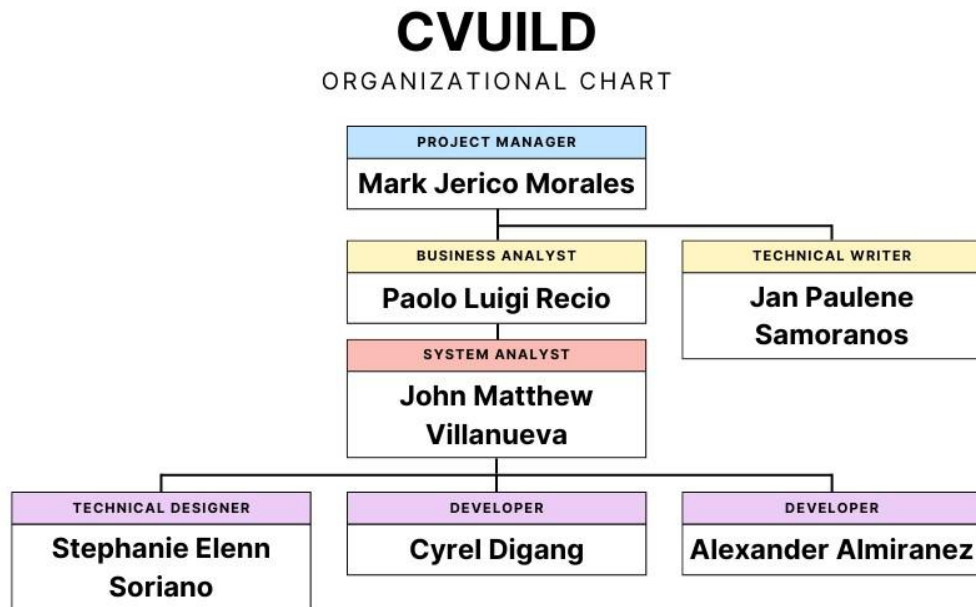
1. Apache Netbeans – The main IDE used in programming the system.
2. MariaDB – Used as the main database for the system.
3. Figma – A design tool used for UI/UX design, wireframing, and prototyping.
4. Apache POI Library – A Java API that enables the document writing and exporting feature of the system.

#### **Engineering Paradigm/Process Model**

The software's implementation procedure followed an Iterative Waterfall Model, wherein compared to the traditional Waterfall approach, changes can still be applied even after the phases are completed. The process begins with planning and designing, which includes requirements gathering and outlining the technical specifications. Followed by the development of the backend

system and the frontend interface for the implementation phase, then testing and debugging, and finally deployment and maintenance of the operational software. Post-deployment changes such as adding features on the interface or database can still be accommodated. For instance, the system's dark mode feature was only added after the first presentation of the software. With this new addition, a smaller-scale waterfall model was followed, which made changes to the initial waterfall procedure.

## Project Organizational Structure

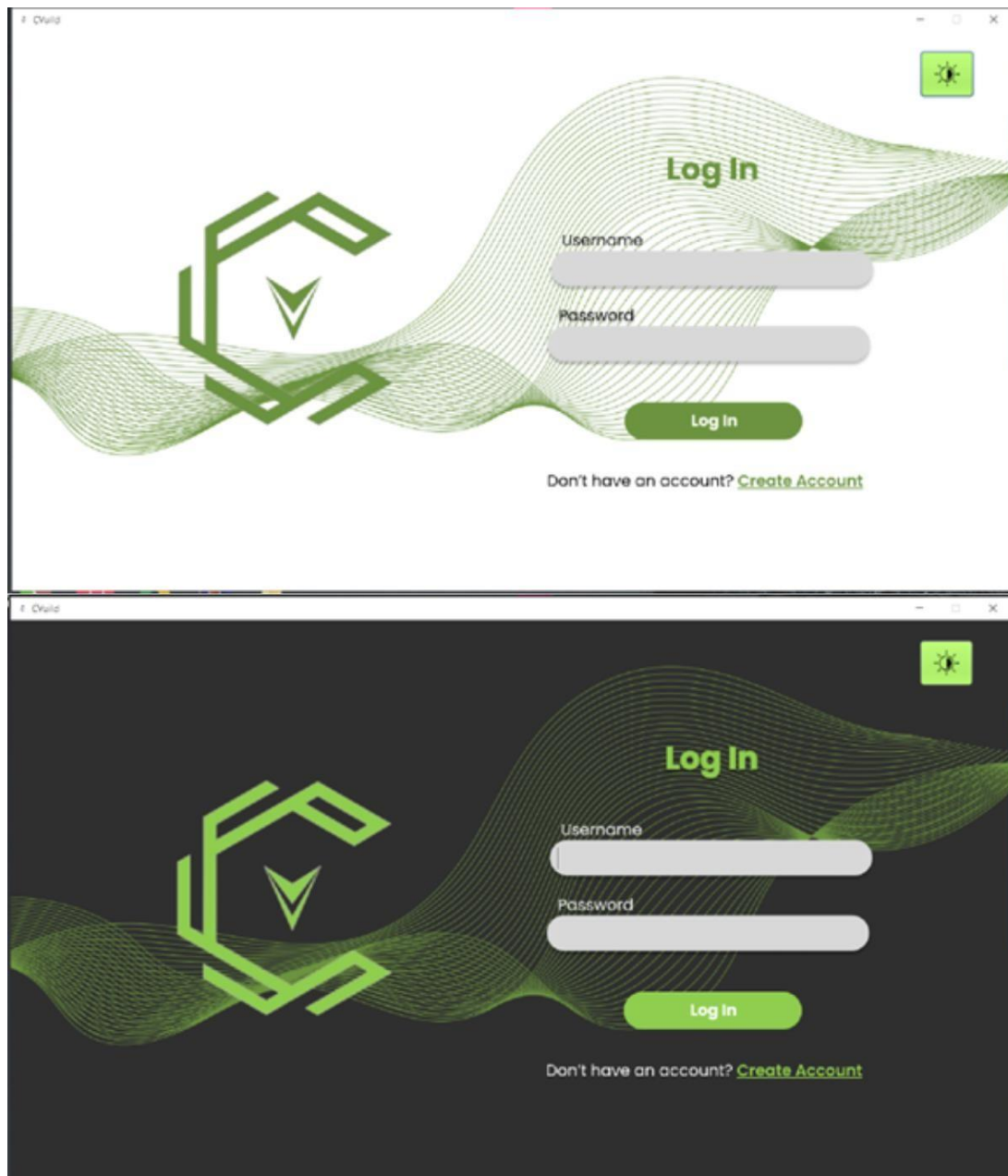


## CHAPTER II – PROJECT DESIGN

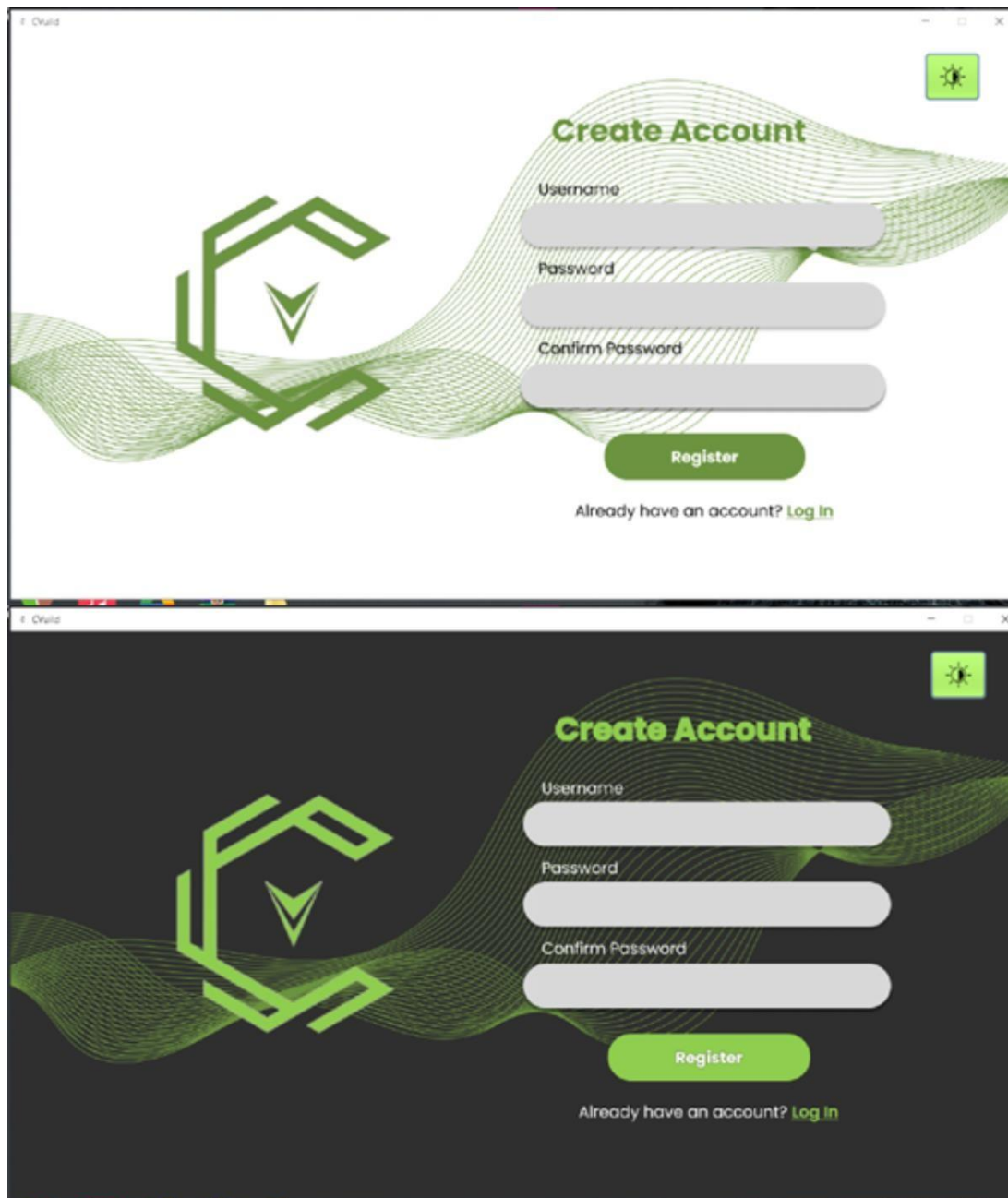
### System Screenshots



**Figure 1. Landing Page** (This is first shown when the application is run. The user can either choose to create an account, or log-in to an existing one.)



**Figure 2. Log-in Page** (Where the user can log-in to their existing account.)



**Figure 3. Account Creation Page** (If the user does not have an account yet, they will be redirected to this page.)





**Figure 4. Home Page** (After logging in, the user will be redirected to this page. The user can create a new resume project, modify an existing resume project, or delete a resume project.)

The figure displays two versions of a 'PERSONAL INFORMATION' form, likely demonstrating a theme switch or a before/after state. Both forms are titled 'PERSONAL INFORMATION' and feature a home icon and a refresh icon in the top right corner.

**Form Fields and Data:**

- First Name:** Joaquin
- Last Name:** Boiser
- Address:** 28 Tahimik Sta. Cruz  
House Number, Street Name, Barangay Name
- City and Country:** Cavite Philippines  
e.g., Cebu, Philippines
- Zip Code:** 4103
- Email:** caribboiser@gmail.com
- Phone Number:** 09063285986

The top screenshot has a light blue background with a faint watermark of a Philippine passport. The bottom screenshot has a dark grey background. Both forms have a green header bar and a green footer bar with a right-pointing arrow.

**Figure 5. Personal Information Page** (The first part of the resume creation process; this is where the user will input their personal information such as name, address, and contact details for the resume.)

The figure displays two versions of the 'EDUCATION' page from a resume builder application. Both versions feature a green header bar with a home icon, the title 'EDUCATION', and a refresh icon. The bottom of each page has a green bar with left and right navigation arrows.

**Top Screenshot (Light Blue Background):**

- University Name:** Polytechnic University of the Philippines
- City and Country:** Manila, Philippines (with a hint: *e.g., Makati, Philippines*)
- Graduation Date:** 2015 (with a hint: *or expected graduation date*)
- GPA:** 1.25
- Degree:** Bachelor of Science (with a hint: *e.g., Bachelor of Science*)
- Concentration or Major:** Computer Science (with a hint: *e.g., Computer Science*)
- Thesis:** Exploring Machine Learning Algorithms
- Relevant Coursework:** Data Structures, Algorithms, Artificial Intelligence, Database Management

**Bottom Screenshot (Dark Grey Background):**

- University Name:** Polytechnic University of the Philippines
- City and Country:** Manila, Philippines (with a hint: *e.g., Makati, Philippines*)
- Graduation Date:** 2015 (with a hint: *or expected graduation date*)
- GPA:** 1.25
- Degree:** Bachelor of Science (with a hint: *e.g., Bachelor of Science*)
- Concentration or Major:** Computer Science (with a hint: *e.g., Computer Science*)
- Thesis:** Exploring Machine Learning Algorithms
- Relevant Coursework:** Data Structures, Algorithms, Artificial Intelligence, Database Management

**Figure 6. Educational Background Page** (This is where the user will enter their educational background such as name of university, address of the university, degree, major, and relevant coursework for the resume.)

The figure displays two versions of a web form titled "EXPERIENCE". The top version has a light green header and footer, while the bottom version has a dark green header and footer. Both forms are identical in structure and content.

**Form Fields:**

- Job Title:** Software Engineer
- Company or Organization Name:** Senti AI
- City and Country:** Makati Philippines (with a hint: "e.g., Manila, Philippines or Remote")
- Start and End Dates for each position:** 2015-2017 (with a hint: "Month Year - Month Year")
- Responsibilities and Achievements:** Developed and deployed scalable and optimized software solutions, contributing to a remarkable 20% enhancement in system performance. Collaborated seamlessly with cross-functional teams to conceptualize and implement innovative features, ensuring their seamless integration with existing systems. Conducted rigorous code reviews, adeptly identifying and resolving critical issues, resulting in a commendable 15% reduction in software bugs.
- Action Button:** Add Another Experience

**Figure 7.1. Experience Page** (This is where the user will enter any relevant experiences in the resume.)

**EXPERIENCE (1)**

**Job Title**  
IT Analyst

**Company or Organization Name**  
IT Analyst

**City and Country**  
Cavite Philippines  
e.g., Manila, Philippines or Remote

**Start and End Dates for each position**  
2017-2021  
Month Year - Month Year

**Responsibilities and Achievements**  
Analyzed and optimized network infrastructure, elevating overall system reliability by an impressive 30%. Implemented robust cybersecurity measures, culminating in a notable 25% decrease in security incidents. Pioneered the migration of legacy systems to a cutting-edge cloud-based architecture, amplifying accessibility while concurrently trimming maintenance costs by a substantial 20%. Delivered prompt and effective technical support to end users, consistently resolving issues and upholding

**Add Another Experience**

**Figure 7.2. Additional Experience Page** (For additional information about relevant experience. The user can include up to three [3] relevant experiences in the resume.)

**LEADERSHIP AND ACTIVITIES**

**Role**  
Event Organizer

**Company or Organization Name**  
iTech Coding Club

**City and Country**  
Manila Philippines  
e.g., Manila, Philippines or Remote

**Start and End Dates for each position**  
2014-2015  
Month Year - Month Year

**Responsibilities and Achievements**  
Organized coding competitions and workshops, increasing club membership by 30%. Facilitated collaboration among members, resulting in the successful completion of a group project on data encryption.

**Figure 8. Leadership and Activities Page** (For any leadership experiences and extracurricular activities the user wants to include in their resume.)

**SKILLS AND INTERESTS**

**Technical**  
Python, Java, SQL, JavaScript, Git

**Language**  
Proficient in English.

**Interests**  
Machine Learning, Data Science, Web Development

**Laboratory**  
Experience with experimental design, data collection, and analysis in a laboratory setting.

Note: Optional

← See Preview

**SKILLS AND INTERESTS**

**Technical**  
Python, Java, SQL, JavaScript, Git

**Language**  
Proficient in English.

**Interests**  
Machine Learning, Data Science, Web Development

**Laboratory**  
Experience with experimental design, data collection, and analysis in a laboratory setting.

Note: Optional

← See Preview

**Figure 9. Skills and Interests Page** (For technical skills, soft skills, languages, and areas of interest the user wants to include in their resume.)



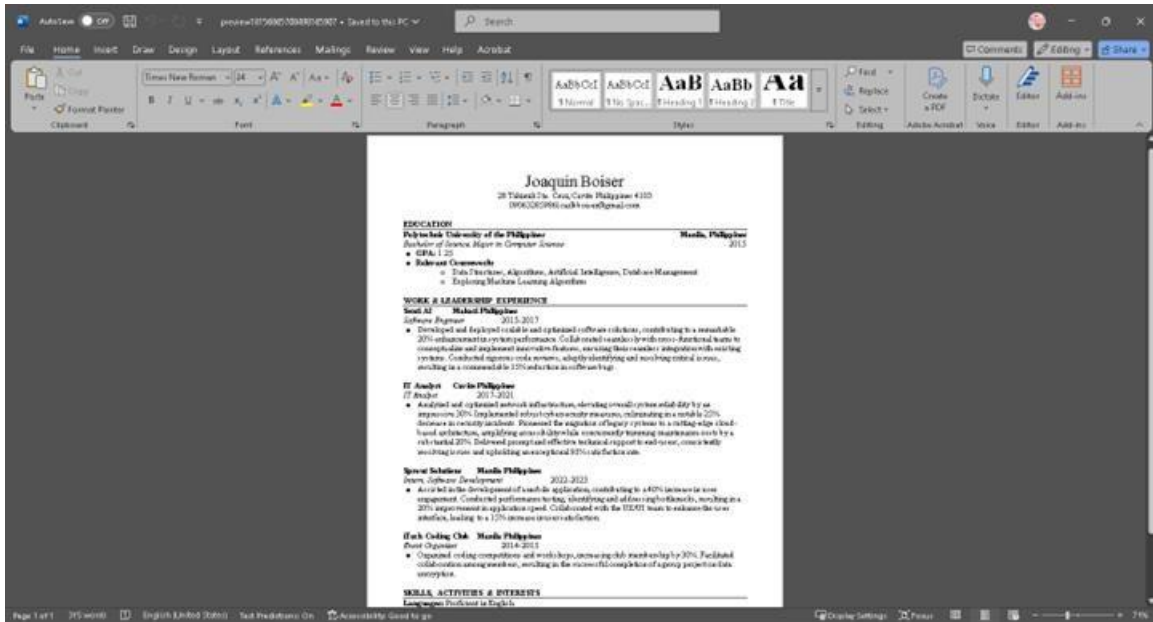


**Figure 10. Resume Template Page** (The second part of the resume creation process, selecting the template for the resume. Currently, there are two templates to choose from: Harvard template and Goldman Sachs template.)

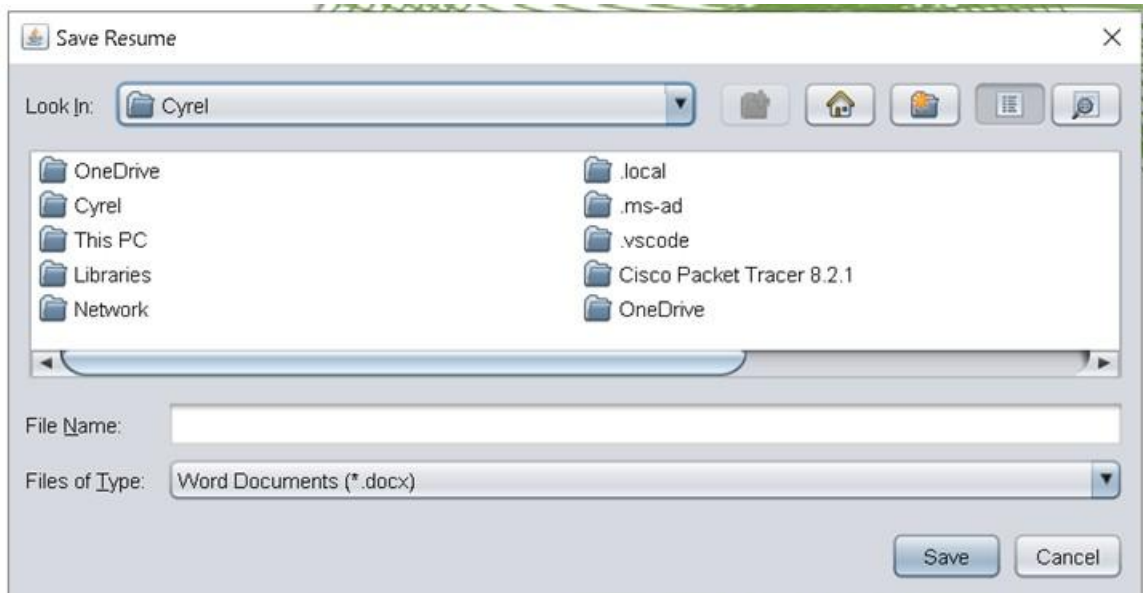




**Figure 11.1. Preview Page** (Last part of the resume creation process. After selecting the template, the user can preview their resume first wherein a document window will open with a preview of the created resume. From this page, the user can also download their resume.)



**Figure 11.2. Preview Document Window** (The Word window where the created resume can be previewed before saving.)



**Figure 12. Save Resume Window** (This window appears when the user downloads the created resume. Here they can pick where to save the resume on their device.)



**Figure 13. End Page** (After the resume creation process, this page will appear. The user can either go to the Home Page, return to the resume preview and resume creation, or log-out from the application.)