

Introduction

Our Mission:

In today's competitive job market, crafting a concise yet detailed resume is challenging, especially for college students who lack experience. With ever-changing resume standards, the process becomes even more daunting. Our goal is to alleviate this burden by creating a website that leverages artificial intelligence to streamline resume creation based on current standards.

Context

Use Cases:

1. Resume Optimization: AI streamlines resume creation by expanding basic information, providing detailed and descriptive resumes effortlessly.
2. Resume Viewing: Users can access and download their resumes anytime by creating a personal account for easy retrieval.
3. Formatting Assistance: ResumeUp automatically formats resumes using user-provided information, delivering polished and professional documents with minimal effort.

Intended Users:

1. Job seekers seeking a strong resume.
2. ISU students (usually in the computer science/software engineering area)



Supported on browsers above

Technical Details

Technologies used:

- Next.js - Development Framework
- MongoDB - Database
- AWS EC2 - Virtual Machine
- OpenAI API - AI Model

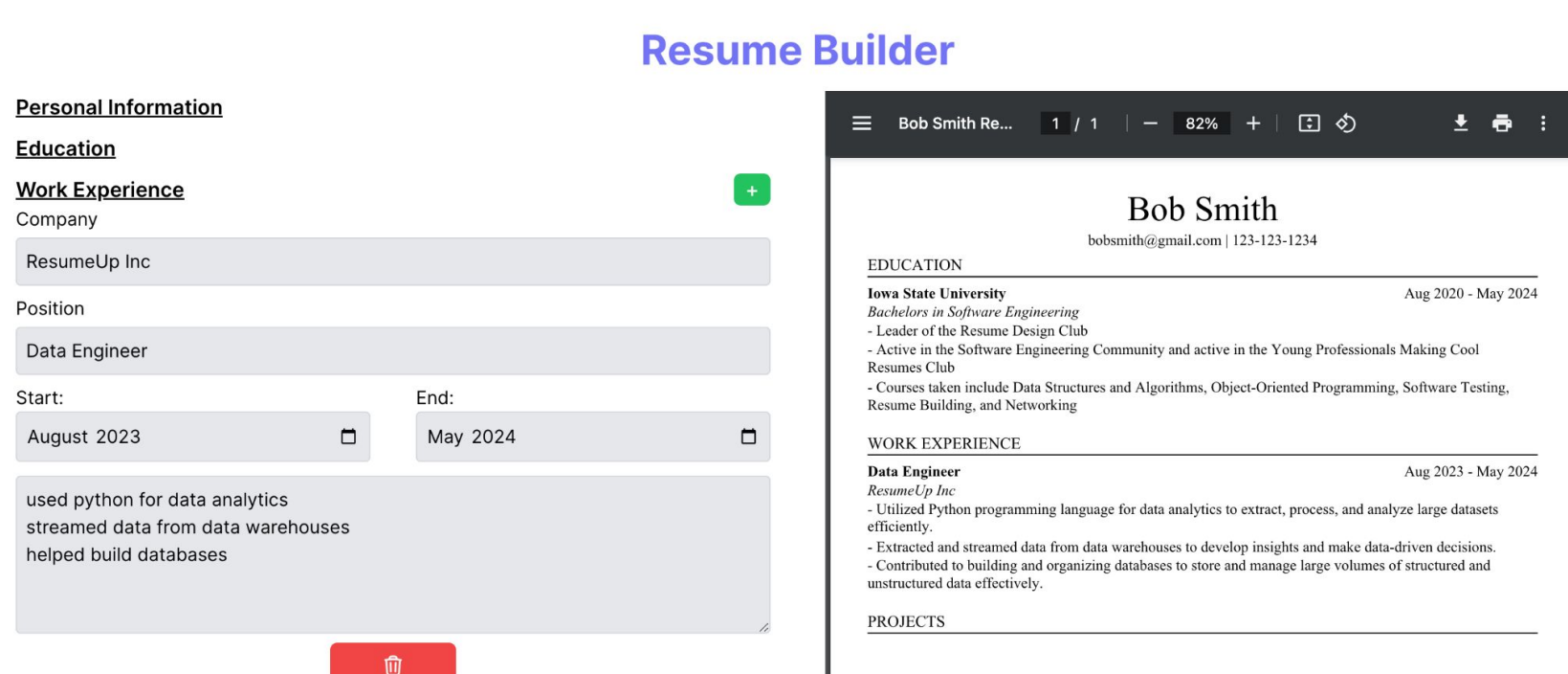


Figure 3. Resume Builder Screen

Design Approach

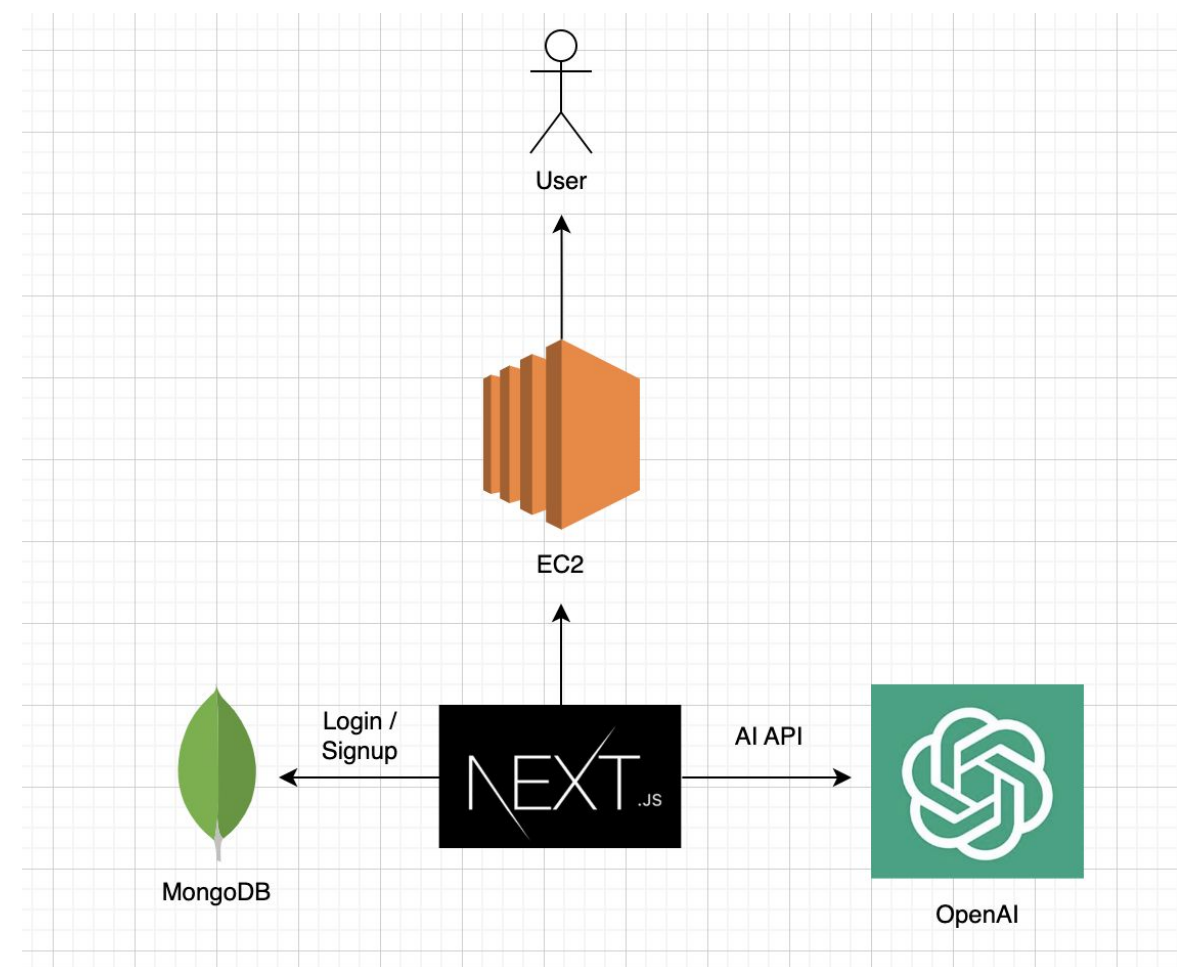


Figure 1. System Design

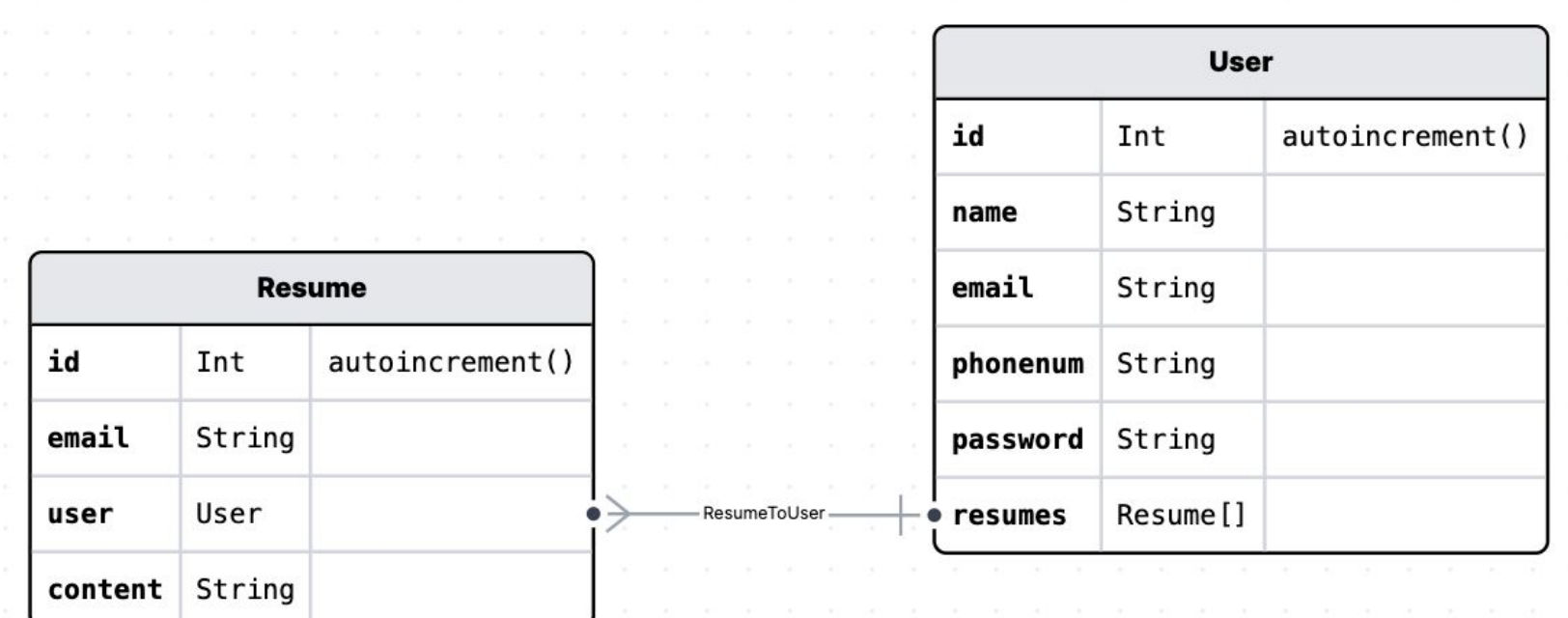


Figure 2. Database Schema

Design Requirement

Functional Requirements

- Users can fill in their information, creating a new resume with AI assistance
- Users will be given a resume grade based on the information they provide
- A user can create an account and access that account
- A user can save a resume to their account and access it later

Non-Functional Requirements

- A user should be able to navigate the site and get through everything in under 2 minutes
- The website will be hosted on a server with at least 90% uptime
- The website will have 0 actions that cause the webpage to lock or freeze due to client-side operations
- The website should respond to user input within a few seconds



Testing

- Manual testing on local hardware
- Multiple developer reviews for each pull request
- Core features tested, such as resume creation, AI API interactions, user account creation, and login
- Frontend and backend code tested for functionality
- Utilized potential users for software testing, including friends and family
- Testing conducted before and after pull requests into main branch