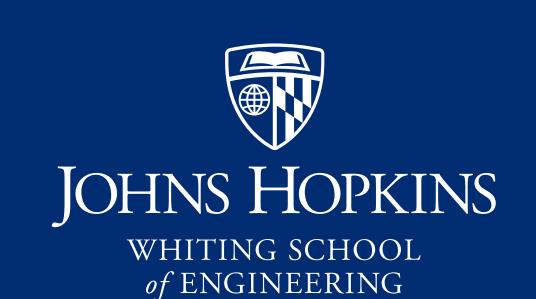


# Jobiter Smart Job Application Assistant



Team: Kevin Wu, Eric Zhao, Viola Xu, Aryavrat Gupta, Jacky Wang, Madhu Rajaprakash Mentors: Dr. Anton Dahbura, Dr. Lawrence Aronhime

#### **Project Abstract**

We're **Jobiter** - a team of Hopkins students building an intelligent web platform to transform the job application process for college students and new graduates.

By integrating **Al-powered** resume and cover letter optimization, application form **auto-filling**, and **job** recommendations based on individuals' skills and qualifications, Jobiter streamlines the repetitive, time-consuming, and often demoralizing experience of navigating ATS (Applicant Tracking System) platforms:



Through **powerful automation** and **customization**, Jobiter dramatically boosts users' chances of advancing past ATS filters and reaching the next stage of recruiting - the interviews.

#### Motivation

What percentage of online job applications get sorted out by Al resume readers on ATS platforms, before they ever meet human eyes?

This differs between applicants; but a conservative estimate is 80% to over 90%:



Gets you an interview

An average Hopkins student spends well over 100 hours on their job search; that is 100 hours wasted on labor that generates 0 return!

### Select Components of Our Platform

Resumes come in countless formats - varying section sizes, layouts, and even multiple columns - which is why even dominant ATS platforms like Workday struggle with accurate resume parsing.

At Jobiter, we've tackled this challenge head-on. Developing an original voting-based algorithm inspired by K-means clustering, we precisely segment resumes into sections, feed them into an LLM-powered parser, and deliver results that are far more accurate and comprehensive than existing solutions.

**Step 1: Segmentation** 

X = 100: section divider likelihood = 99 (chosen)

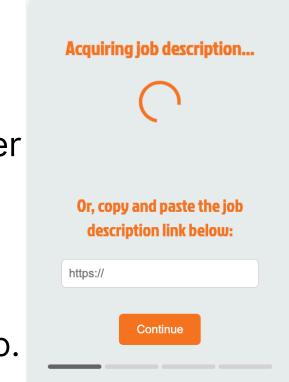
X = 30: section divider likelihood = -50 (voted out) Kevin Wu

Step 2: LLM-**Powered Parser** 

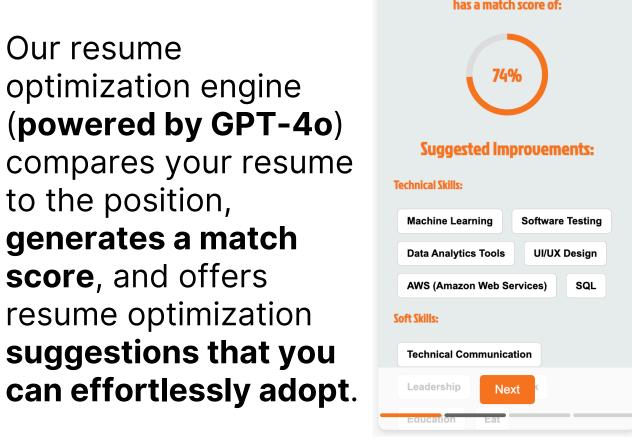
Our parser is powered by Mistral AI, a lightweight LLM that seamlessly integrates with our AWS backend - each parse would only cost ~\$0.0005!

**Resume Optimization Workflow:** 

When you start a job application online, our browser extension will automatically acquire the job **description** and extract crucial info.

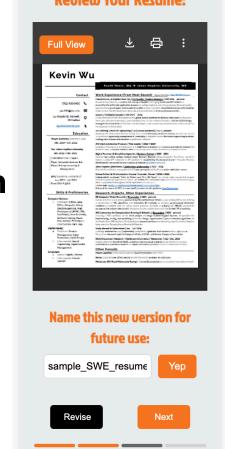


Our resume optimization engine (powered by GPT-4o) compares your resume to the position, generates a match **score**, and offers resume optimization suggestions that you

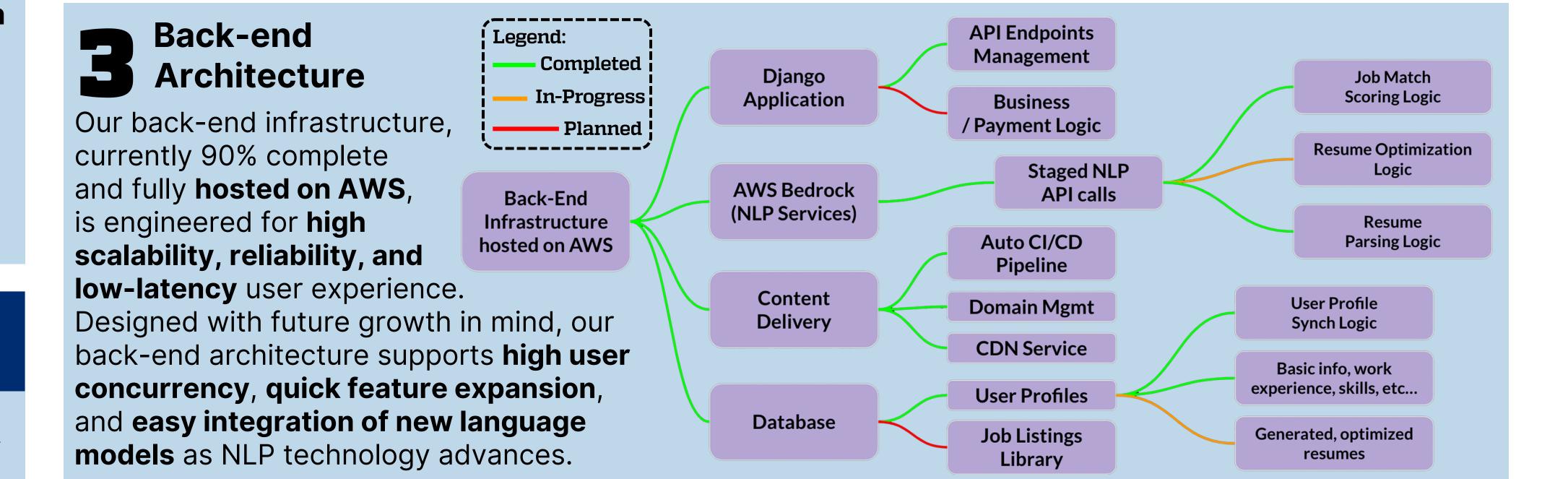


Then, review and confirm your resume.

Our auto-fill function will take it from there! With just one click, your forms are filled to perfection, and your application is ready to submit!



In just 3 minutes, you have a high-quality application 🚀



Are existing job application tools widely adopted by frustrated applicants? Not even close.

Some platforms (e.g. VMock) were designed to appeal to human recruiters and are poorly-suited for today's ATS-dominated landscape. Others (e.g. Jobscan, Simply) lack robust automation, often leaving users burdened with repetitive, manual adjustments.

	Jobiter	Simplify	Jobscan	VMock
Offers Reliable Auto-Fill?		(°-1	X	X
Offers Resume Optimization Tips?				
High Level of Automation?			X	X

## To Learn More



Our platform, jobiter.co, is live! Currently, some of our features are still work-in-progress.

Please stay tuned for a **fully** functional MVP (Minimum Viable Product) that we'll release very soon!