Joshua Singh

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PROFESSIONAL SUMMARY

Detail-oriented and innovative Software Engineer with a strong foundation in software development and automation solutions. Experienced in leveraging low-code platforms and programming languages to enhance operational efficiency within collaborative environments. Adept at building and maintaining high-performance applications and automating processes to solve complex problems in logistics and research through excellent teamwork and strategic initiative.

TECHNICAL SKILLS

Java • YAML • HTML • CSS • JavaScript • Low-code Platforms • ETL Pipelines • Airtable • Zapier • Collaboration • Innovation • Process Optimization • Decision Engines

PROFESSIONAL EXPERIENCE

Software Engineer - AI Workflow Developer | L&S; Logistic Services | Orlando, FL | Mar. 2024 - Oct. 2024

- Developed low-code automation tools to enhance warehouse and delivery workflows, improving efficiency and reducing potential bottlenecks.
- Utilized Python and YAML to build AI-driven systems for automated shipping data processing, optimizing routing decisions based on urgency and location.
- Collaborated with logistics teams to deploy AI solutions that minimized manual data entry tasks, aligning technology with operational needs.

Software Engineer - Research Assistant | University of Central Florida, Prof. Boloni's Lab | Orlando, FL | 2023

- Engineered automated workflows for data collection and analysis in research projects focused on AI-driven content detection, enhancing study accuracy and efficiency.
- Designed user-friendly low-code visualizations for model outputs, empowering researchers to manage datasets effectively without needing advanced programming skills.
- Integrated machine learning predictions into study pipelines, leading to improved research reproducibility and a better understanding of the data.

PROJECTS

AI Resume Optimization Platform

- Implemented advanced PDF parsing to extract structured data from resumes, facilitating comprehensive keyword optimization and analysis.
- Developed a job posting scraper that utilized NLP techniques to derive essential qualifications and preferences from various job boards.
- Built an intuitive web interface that offers real-time feedback, enabling users to refine their resumes for effective Applicant Tracking System (ATS) compatibility.

Technologies: Python, OpenAI API, React, PostgreSQL, PDF Parsing

AI Video Generation Platform for Social Media

- Leveraged OpenAI API for content summarization, transforming lengthy study material into concise, engaging video segments suitable for TikTok and Instagram.
- Engineered a custom rendering pipeline using FFmpeg and Python to ensure high-quality audio-visual synchronization across diverse formats.
- Created a creator dashboard that simplifies content management and customization, enhancing user experience and streamlining the video creation process.

Technologies: Python, OpenAI API, FFmpeg, React, Text-to-Speech

Custom AI Chatbot Builder for Small Businesses

- Crafted a web scraping system for content extraction, allowing businesses to seamlessly feed data into the chatbot engine for natural interactions.
- Integrated the OpenAI API utilizing retrieval-augmented generation (RAG) to ensure contextual relevance in customer service responses.
- Designed embeddable UI components to facilitate easy integration of chatbots into existing websites, ensuring minimal technical setup.

Technologies: Python, OpenAI API, JavaScript, Web Scraping, Embeddings

EDUCATION

Bachelor's Degree in Computer Science and Minor in Computational Mathematics and Health Sciences | University of Central Florida | Graduated May 2024

Honors: Received Florida Academic Scholars Bright Futures Scholarship due to exemplary academic performance.