Joseph Mazzini

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LinkedIn GitHub Portfolio

Summary

A motivated and resourceful Computer Science student with a passion for automation, optimization, and problem-solving. Extensive experience on both Windows OS and Linux, can effectively utilize CLI for most actions in both windows and linux, as well as to interact with cloud service providers and for data query. Also effectively employs automation scripting with Shellscript and Python. Combines a strong work ethic honed through hands-on experience in demanding fields with a deep fascination for software development and machine learning. Seeking to contribute to, and grow with a great team.

Skills

Comfortable With

- Python
- Git & GitHub
- Linux (Debian/Ubuntu)
- Shell Scripting
- MongoDB
- CLI
- DigitalOcean

Current focus of study (outside formal coursework)

- JavaScript
- HTML & CSS
- React
- Node.js
- PostgreSQL
- TypeScript
- Express.js

Projects

Rip City Ticket Dispatch

ripcityticketdispatch.works (In Development)

- Engineered a full-stack event discovery platform for the Pacific Northwest, aggregating data from sources like Ticketmaster and Eventbrite.

- Tech stack: React/TypeScript frontend, Node.js/Express backend, MongoDB database, deployed on DigitalOcean with Nginx.
- Features an AI-powered deal engine (OpenAI), multi-channel notifications (Twilio/SendGrid), and Stripe integration.

Veritas-Lens: Political Bias Detector

GitHub Repository

- Developed an ML model to classify political bias in news articles by fine-tuning a `bert-base-uncased` model, achieving 82.15% validation accuracy.
- Created a robust data preprocessing pipeline to combine and standardize multiple datasets from Hugging Face.
- Includes a full-stack application with a TypeScript/Express.js backend and a RESTful API.

Robust-Cite: NER Citation Parser

GitHub Repository

- Built and trained a Named Entity Recognition (NER) system to parse bibliographic components from academic citations.
- Implemented an advanced training pipeline in TensorFlow/Keras, achieving 99.97% validation accuracy on a 30,000-citation dataset.
- The model identifies 19 distinct entity labels (author, title, year, etc.) and is designed for scalability.

Professional Experience

IT & Compliance Manager

Upper Rogue Terraces | Shady Cove, OR | 2018 - Present

- Independently managed and modernized the IT infrastructure for a state-licensed agricultural producer.
- Engineered a transition from an unreliable satellite ISP to a 5G mesh gateway, increasing connectivity from ~300 Kb/s to ~1 Gb/s.
- Migrated an aging network of Windows machines to lightweight Linux distributions, improving performance for critical operations.
- Ensured IT systems would support compliance with state regulations by managing a 24/7 security logging system and the METRC seed-to-sale tracker.

Facility Maintenance Technician

Ocean Properties Limited | Albuquerque, NM | 2014 - 2017

- Maintained two large hotel properties, responding to work orders through a ticketing system.

- Gained practical experience in electrical theory while troubleshooting complex 120/240v and 460v systems.

Education

Associate of Science, Oregon Transfer Program (In Progress)

Rogue Community College

Pursuing a transfer degree with the goal of completing a Bachelor of Science in Computer Science from Oregon State University.