Shawn Underwood

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SKILLS

Languages: C#, Python, Javascript

Frameworks: .NET (Blazor, Framework, Core), Python (Django, Flask, Fast API), JavaScript (React, Vue, Angular)

Server Services: Azure, Linode, AWS, Google Cloud, Linux, Windows Server, ESXi Vmware, Firebase, Kubernetes, Docker, Kafka, Railway

Database: SQL, Postgres, Mongo, MySQL, SQL Server, SQLite

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Keras, FastAI, OpenAI GPT, Hugging Face Transformers, IBM Watson, LUIS (Language Understanding), Dialogue Flow (Google)

PROJECTS

Voicemailmachine.com A smart voicemail management service built using Twilio, IBM Watson, and developed with Python Fast API and Kafka hosted on Linux Ubuntu Server with Docker and Kubernetes using Linode.

Underwoodmovies.com A dynamic Vue.js and ASP.NET Core (.NET 8) web application, featuring an efficient proxy architecture. Expertly deployed on Railway with Continuous Integration in a Docker container, ensuring robust performance and scalability.

Blazorsurvey.com Survey Workflow Solution; created using Blazor (.NET 8) to offer seamless survey processing capabilities across web and SMS platforms.

Speech and Text Machine Learning Applications; developed with Python TensorFlow.

Call Center Management Website; developed with ASP.NET and hosted on Windows Server.

Android apps on the google play store. My Apps on Google Play

Google Voice Assistant; developed with Dialogue Flow and a Python Flask webhook, hosted on Linux Ubuntu Server using AWS.

E-Commerce Website; developed with Python Flask hosted on Linux Ubuntu Server with Docker using AWS.

Simple Patent Search API: Developed an API to validate US patents. Developed with Fast API, Redis, and a managed database cluster, hosted on Linode.

EXPERIENCE

FSC Edge - *Lead Software Engineer*

JANUARY 2022 - PRESENT

- Led the production workflow as a software engineer, managing and greatly contributing to the python project processing United States patents.
- Ensured that the production workflow consistently met our deadlines for deliveries and provided overnight fixes when needed to ensure the workflow was not interrupted.
- Collaborated with colleagues in France, working on shifted hours, and traveled overseas twice for software training.
- Created an API for validating US patents using machine learning to ensure that we were able to validate our work.

ICF International - *Software App Eng*

MAY 2019 - DEC 2021

- Lead daily standup / JIRA morning meetings with the Team and Directors.
- Developed a large amount of Javascript features to meet client's needs that I was able to hire a team and manager to further develop and maintain.
- Developed a machine learning application using Microsoft LUIS and Python TensorFlow to analyze audio recordings, find discrepancies, and display them for quality assurance employees.
- Developed a call center management portal with schedule and attendance features using ASP.NET and Azure.
- Developed a machine learning application using Python Tensorflow with other NLP algorithms to analyze documents by the sentence and reorganize the data saving team members days of work.
- Developed Python scripts for our San Francisco biology lab to help them capture and record species counts.
- Developed a front-end site using Python Flask with Docker and Kubernetes to process imported data. That data is stored in a database and then is used by a Python Tensorflow machine learning application to process and provide an export for the user.
- Developed numerous scripts using Python Pandas and Javascript across the company to save employees time.

Union Pacific Railroad - *New Growth Eng*

DECEMBER 2017 - JULY 2019

- Project Lead in company-wide mobile app rollout which entails inventory management, system activation, software configuration to specific locations, project timeline management, and working closely with stakeholders to ensure the project is completed in a satisfactory and professional manner.
- Developed an Angular mobile application using Cordova for our company-wide mobile app rollout.

EDUCATION

The University of Nebraska at Omaha *-Bachelors in Computer Science*

AUGUST 2018 - MAY 2020

Iowa Western Community College *-Associates in Computer Science*

AUGUST 2016 - MAY 2018