

Corey New

<https://corey-new.github.io/> | Relationship Builder | Detail Oriented | Leadership

SUMMARY

1. Specializations: Object Oriented Programming, API Engineering, Data Analytics

EDUCATION

CALIFORNIA STATE UNIVERSITY OF FULLERTON, CA

AUGUST 2018 - AUGUST 2023

BACHELOR'S OF SCIENCE - COMPUTER SCIENCE

TECHNOLOGY SKILLS

Methodologies: Agile, Scrum, XP, Restful API

Programming: Java, Python, C, C++, C#, .NET, Node.js, MySQL, NoSQL, R

Software: Unix, Linux, MobaXTerm, Microsoft Azure, Azure Storage Explorer DevOps, Visual Studio, Git, Jira, Jupyter, Docker, Kubernetes

AI & ML: Python SDK V2, TensorFlow, OpenCV, Pandas, NumPy, PyTorch, OpenTelemetry, Kafka

PROJECTS

DISCORD BOT | Python, MySQL

- A Discord Bot that involves the Python Discord API with asynchronous functionality and embedded formats.
- The Discord API communicates to the MySQL database based on the user's request via configured commands.
- Custom command handler was implemented to help guide the user in using the API correctly and efficiently.

JOB POST WEBSITE | PHP, HTML, MySQL

- This locally hosted website was designed to read, create, update, and delete job posts based on user account
- There is a database schema using MySQL Workbench database management system.
- Resources include Apache HTTP server to connect the database, PHP and Bootstrap to configure the front-end.

WORK EXPERIENCE

OMNIMED

TUSTIN, CALIFORNIA

JUNIOR SOFTWARE DEVELOPER, DATA ANALYST

SEPTEMBER 2023 - PRESENT

- **Machine Learning Operations**
 - I led a team of data analysts in an active machine learning (human-in-the-loop) process to train a machine learning model to classify thousands of surgical instruments, operating room equipment, and a variety of workshop tools.
 - Assisted the development of machine learning models to production using Azure DevOps Pipelines
 - Managed and processed data: collection, validation, blob storage, metrics, and visualizations
 - Created pipeline components and used MLOPS features to help train ML models
 - Maintained the system architecture of video data preparation and video training pipelines
- **SmartOR Web Application**
 - Developed and maintained a web application using Angular (frontend) and C# .NET (backend & cloud API).
 - Designed and implemented REST API endpoints to support frontend features and backend business logic. Built and optimized dynamic pages and data views for improved user experience.
 - Wrote unit tests for both frontend (Jasmine/Karma) and backend to ensure code quality and reliability.
 - Managed SQL Server database schemas, including creating tables, and deployment scripts.
 - Integrated backend services to communicate with edge devices, ensuring seamless data flow and device interoperability.