Maximilian C. Wilhelm

maxkaiserwilhelm@gmail.com - (203)-216-5115

PROFESSIONAL EXPERIENCE

Pratt & Whitney - An RTX Business

May 2022 - Present

West-Hartford, CT

EDSI AL/ML Senior Software Engineer

- AI Work Instruction Assistant Python, OpenSearch, SageMaker, SGLang
 - o RAG architecture to limit hallucinations and serve original documentation
 - o OpenSearch Indexes to segregate export restricted data (ITAR)
- Task Tracking Dashboard Flask, Vue, Jinja, Django, Postgres, 1000+ daily users
 - o Rearchitected Django Jinja based application to Vue
 - o Integrated a Redis cache for grid data to improve page load times by 460%
 - o Utilized AWS SAM to deploy scheduled Lambdas for processing data from external databases
- Finite Element Analysis Visualizer Vue, Aurora Postgres
 - Optimized queries and redesigned database to improved load time by 2166%
 - O Wrote Lambda to parse 4 varieties of FEA software outputs (rst, txt, csv, xlsx) into Json
- Prefect Workflow Orchestration Python, OpenAPI, Lambda
 - o Automatically captured and hosted OpenAPI docs from workflows to further interoperability
- Led organization-wide process transformation that improved task turn around and customer trust
- Receives 4 awards for distinguished contributions
- Scrum Master for a team of 4 software developers

Computer Projections Inc

May 2019 - June 2019

Technology Solutions Intern

Westport, CT

- Redesign of html-based website to React with brand alignment theme
- Data Center maintenance: swapping failed parts, troubleshooting performance and organizing patch panels

EDUCATION

University of Connecticut

May 2023

Bachelors of Science, Computer Science and Engineering

Storrs, CT

- Concentrations: Software Engineering and Systems and Networks
- Minor in Mathematics
- GPA 3.8

SKILLS

- Advanced Languages: MySQL/Postgres, Python, HTML/CSS, JavaScript, C, C++, Bash
- Frameworks and Libraries: React, Vue, Jinja, Flask, REST API
- Tools: Git, Linux, Docker, AWS, Vim, Matomo, Sentry, Zenhub, Jira
- Certifications: AWS Cloud Practitioner, AWS Developer Associate, Registered Scrum Master

PROJECTS

Borderlands Shift Code Auto-Redeemer | Personal | Python, MySQL

 Collected data from scraping database API, integrated into a redemption website utilizing user input credentials, and logged used codes in local MySQL database

Food Truck Ordering system | Senior Project | SQLite, React Native, Node.js

Hosted a Node.js website on the Wi-Fi hotspot of an Android tablet. Wrote a React Native app enabling chefs
to manage orders, and communicate with customers. Automatic performance metrics for food items and chefs.