

Edwin Zamudio

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github.com/notedwin

Experience

Data Engineer

Deloitte Consulting

January 2022 - Present

- Developed performant data pipelines to process and clean data on 30 billion data center components to monitor the quality of components using metrics such as Annual Swap Rate and Defective parts per million.
- Enabled large-scale machine learning models to predict and identify common defects in server components to aid data center engineers in troubleshooting.
- Maintained end-to-end requirement documents to manage constantly changing requirements, data quality checks, and tests.
- **SQL, Python, Presto, Spark, Apache Airflow**

Software Engineer

Cox Automotive: Engineering Enablement

May 2021 - January 2022

- Reduced time to detect cloud cost and usage anomalies from 2 days to 1 day by developing an efficient application to transform 300+ GB of daily AWS cost and usage data.
- Automated the process of alerting teams not compliant with requirements such as application monitoring, static code checking, and on-call point of contact.
- **Python, AWS (S3, Lambda, SNS), Terraform, SQL, Presto**

Software Engineer (HaxML website)

HaxML: Virtual Soccer Analytics Platform

December 2020 - March 2021

- Developed and deployed machine learning models to predict expected goals for the online soccer game, HaxBall.
- Designed and implemented methods to efficiently extract defender positioning, ball speed, and shot angles, from a dataset of 400,000+ kicks and 30 million player position data points.
- Improved model by doubling precision from 36.4% to 75.7% and recall from 1.5% to 17.2%.
- **Python, Scikit-learn, Pandas, Flask**

Software Developer

Idea Shop: Illinois Tech's Prototyping Shop

January 2020 - May 2021

- Developed a contactless reservation system for our maker space during the COVID-19 pandemic, reducing manual overhead for reservations and the risk of spreading covid.
- Improved front-end by reducing response time from 5 seconds to 2 seconds by migrating front-end from Flask to React, reducing response.
- **Python, MariaDB, JavaScript, Flask, React**

Education

Illinois Institute of Technology

Bachelor's of Science in Computer Science

Graduated December 2021

Projects

Cyber-attack Map (map.notedwin.com)

December 2020 - Present

- Built a real-time web application to visualize 1,000+ daily brute force SSH attacks on a honeypot server.
- **Rust, Redis, Linux, Public APIs, AWS**