

Edwin Zamudio

815-793-6917

zamudio.e13@gmail.com

[linkedin.com/in/edwin-zamudio](https://www.linkedin.com/in/edwin-zamudio)

github.com/notedwin

Education

Illinois Institute of Technology

GPA: 3.26/4.00

Bachelor's of Science in Computer Science

Expected December 2021

- Related Courses: Systems Programming, Database Management, Data Structures, Algorithms, Computer Networks, Information Security, Ethical Hacking, Data Mining

Experience

Software Engineer Intern

Chicago, IL

Cox Automotive, Engineering Enablement

May 2021 - Present

- Automated an efficient data pipeline on AWS Cost and Usage using Python and AWS Lambda on 1 million AWS services running, allowing us to detect anomalies in cost and usage 30% faster.
- Improved maintainability of multiple Python Serverless application by improving code quality by removing unused or duplicated code, making codebases 15% smaller and more readable.
- **Technologies: Python, AWS, Terraform**

Software Developer

Chicago, IL

Idea Shop: Illinois Tech's Prototyping Shop

January 2020 - May 2021

- Developed a user-facing reservation service during the COVID-19 pandemic, removing 80% of the face to face interactions needed to reserve the space to allow continued usage of the Idea Shop.
- Reduced web-based check-in kiosk system response time from 5 to 2 seconds by migrating from Flask to React for our front-end, which led to a 50% time saving for people checking in.
- Maintained a small network of Linux servers with great stability, security and uptime.
- **Technologies: Python, MariaDB, JavaScript, Flask, React**

Software Engineer ([HaxML website](https://haxml.com))

Chicago, IL

HaxML: Virtual Soccer Analytics Platform

December 2020 - March 2021

- Developed and deployed a 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%.
- **Technologies: Python, SciKit-Learn, Pandas, Flask**

Projects

Cyberattack Map (map.edwin.computer)

December 2020 - Present

- Built a real-time Node.js application with Redis as a database to visualize and locate 10,000+ brute force SSH attacks per day on a Honeypot Server.

Restaurant Web Application (restaurant.edwin.computer)

September 2020 - Present

- Developed a Flask web application with SQL database for a mock company allowing customer to create, edit and delete orders and accounts with payment authorization using Stripe API.

Raspberry Pi Server

March 2020 - Present

- Maintained a stable server that hosts web applications at a cost-effective while practicing my server administration skills through use of Linux, Jenkins, Nginx.

Skills

Programming Languages

Python, JavaScript, SQL, Java, C

Libraries

Flask, Node.js, Pandas, React

Tools

Terraform, Nginx, Jenkins, git, AWS

Formal Languages

Bilingual in English and Spanish

Hobbies

Cycling, Listening to Music, Playing Soccer