Edwin Zamudio

Software Engineer

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Experience

Software Engineer
Chicago, IL

HaxML: Virtual Soccer Analytics Platform
December 2020 - Present

- 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% (more than 10x).
- **Technologies: Python, SciKit-Learn, Pandas, Matplotlib**

Software Developer
Chicago, IL

Idea Shop: Illinois Tech's Prototyping Shop
January 2020 - Present

- Developed a reservation system application to allow safe usage of the maker space during the COVID-19 pandemic by removing 80% of the face to face interactions.
- Rewrote check-in kiosk web application using React and Flask creating a smoother user experience by reducing the response time from (5 seconds to 1 second) effectively making the applications 5 times faster.
- Managed and monitored multiple Linux severs achieved great stability (<1 crashes per week) on our 5 applications.
- **Technologies: Python, MariaDB, JavaScript, Flask, Linux, React**

IT Technician
Chicago, IL

Illinois Institute of Technology
October 2018 - January 2020

- Closed 90% of customer inquiries on the first call without escalation and received positive feedback from clients and management.
- Reduced complaints of printers not working by 50% by closely monitoring the condition of printer and supplies eliminating the need for people to call to have some check the condition of the printer.

Projects

Raspberry Pi 4B Server
March 2020 - Present

- Created a CI/CD pipeline using Jenkins to remove manual deployment saving ~15 minutes for every deployment.

Restaurant Web Application (restaurant.edwin.computer)
September 2020 - Present

- Developed a Python Flask web application allowing customers for a mock company to create accounts, track and create orders with payment authorization using Stripe API.

Cyberattack Map (map.edwin.computer)
December 2020 - Present

- Developed a NodeJS application to geolocate and report 1000+ daily brute force SSH attacks on my Linux server.

Education

Illinois Institute of Technology
GPA: 3.15/4.00

Bachelor's of Science in Computer Science
Expected May 2022

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

Extracurriculars

- Association of Computing Machinery (ACM) member - Won 2nd place at PayPal Hack for FinU, a financial literacy application for college students.
- Pi Kappa Phi Philanthropy chair - Led 200% increase in fundraising and volunteering for IIT chapter, later received national recognition for most improved philanthropy for the IIT PKP chapter.
- Exelon Summer Institute Teacher - Led in teaching computer science fundamentals to 50 incoming freshmen.

Skills

Programming Languages	Python, JavaScript, Java, C/C++, SQL, BASH, Haskell
Libraries	Flask, Node.js, Pandas, Scikit-Learn, Django, NodeJS, React, Jekyll
Tools	Nginx, Jenkins, git, Docker, Linux
Formal Languages	Bilingual in English and Spanish
Hobbies	Soccer, Cooking, Biking, Music