Eduardo Morales

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Education

University of Illinois Urbana Champaign – B.S. in Mathematics and Computer Science, GPA: 4.0   Expected May 2026

Skills

Languages: JavaScript, TypeScript, PHP, Go, C, C++, Python, F# SQL, PostgreSQL, MySQL, MariaDB, MongoDB
Frameworks: Vue.js, React, Svelte, Express, TailwindCSS
Libraries: Redux, Pandas, NumPy, Matplotlib, SciKitLearn, spaCy
Developer Tools: Git, Docker, AWS, GDB, Mongo Compass, Jest, Firebase, GTest, Anaconda, Postman, Jira, TablePlus

Experience

Student Software Engineer Intern, Nextcloud – Stuttgart, Germany   November 2023 – May 2024

- Developed an API in PHP to extend legacy MySQL databases to support storing file metadata, resulting in version history and version author being displayed for each file, with support to display different file metadata in the future
- Increased product's accessibility functionality to 10+ Vue.js components by adding focus-traps and keyboard listeners, leading to a BITV certification, garnering new contracts for customers who wanted to use the product within Universities
- Implemented a 'Personal Files' view by filtering out shared resources returned by WebDAV queries made in TypeScript, enabling users to be able to differentiate between shared or personal files and folders
- Refactored menu options in Vue.js to re-render every 30 minutes, ensuring menu displays accurate time-reliant actions
- Collaborated with 12 engineers, maintaining CI/CD on an open-source content-collaboration product with 2.2M users

Data Analyst Researcher, University of Illinois Chicago – Chicago, IL   June 2023 – August 2024

- Examined 20 gigabytes of patent data spanning over 3 decades, using Pandas to create dataframes relating to remote job positions, yielding a finding of the 10 most valued developer skills and traits from online job postings
- Discovered an average 12% increase yearly since 2019 in new remote job positions, using Word2Vec to find associated documents created from patent and job dataframes, concluding that granted patents from 2 years prior led to the increase
- Researched the relationship between unemployment and the number of yearly granted patents within the U.S. using Python, finding a positive 1:1 correlation between unemployment percentage and the number of granted patents

Projects

Swole Goal   github.com/emoral435/swole-goal

- Implemented AWS RDS and EC2 to store user workouts on the cloud, using SQLC and GoMigrate for database migrations, enabling users to track and measure their weightlifting progression and have their workout templates persist
- Developed lightweight API with Go's 1.22 net/http package requiring JWT for API call authentication, ensuring user information is securely updated and displayed
- Displayed workout information using SvelteKit and SMUI, resulting in a cross-platform frontend
- Integrated GitHub Actions CI/CD pipelines, ensuring consistent 80% test coverage and consistent linting and code-style

NanoByte Media   github.com/emoral435/nano-byte-media

- Utilized Google Firebase to store sensitive user information on the cloud, allowing users to send and store files and enabling 3 different ways of secure authentication to log in
- Deployed a social media website with Google Firebase by programming a single page application built with React, leading to chatting between 2 authenticated users to happen in real-time
- Designed website for cross-platform usage and mobile-friendly views by using MaterialUI components and TailwindCSS

Leadership

Treasurer and Web Administrator, LOGICA   May 2023 – May 2024

- Collaborated with John Deere, Shure, Discover, and CME Group to host a 3 day technical convention, giving Latinx students opportunities to meet with recruiters and increasing the companies the diversity and equity values
- Created and lead an event called 'LitCode', revolving around giving Latinx students technical interview practice, leading to Latinx students gaining experience surrounding how to tackle LeetCode styled questions whilst eating hot wings
- Maintained organizations website with WordPress, increasing SEO to ensure visibility to outside companies and students