Eduardo Morales

emoral435@gmail.com | moraleseduardo.com | linkedin.com/emswe | github.com/emoral435 | (847) 833-3438

Education

University of Illinois Urbana-Champaign   B.S. in Math and Computer Science, GPA: 4.0   **May 2026**

Skills

Languages: Go, TypeScript, JavaScript, PHP, C, C++, Python, SQL, PostgreSQL, MySQL
Technologies: Git, Docker, Amazon Web Services (AWS), Terraform, Firebase, Datadog, Vue, React, Express, Tailwind CSS, pandas, NumPy, Matplotlib

Experience

Software Engineer Intern, Enova – Chicago, IL   **June 2024 – Aug 2024**
- Developed an API in Go, receiving pull request (PR) metadata from GitHub's Webhook API to automate sending Slack messages, accelerating organizations code review workflow by 42%
- Created 7 PostgreSQL tables to track PR metadata and API service subscribers, using lookup tables to reduce service's data storage usage and eliminate repeated calls by 30%
- Managed API deployment's with Terraform, increasing service's Jenkins deployment pipeline velocity by 15%
- Funneled service metadata into Datadog, revealing 60% of developers subscribed to the service within 3 weeks

Software Engineer Intern, Nextcloud – Stuttgart, Germany   **Nov 2023 – May 2024**
- Built an API in PHP that enabled legacy MySQL databases to support storing file metadata, resulting in the core product's file version history being displayed and the ability to display different file metadata
- Increased product's accessibility functionality on 14 Vue components by adding focus-traps and keyboard listeners, leading to a BITV certification, gaining new contracts within universities
- Implemented a 'Personal Files' view by excluding shared resources returned by WebDAV queries made in TypeScript, allowing users to distinguish between shared or personal files and folders visually
- Refactored Vue popup menu's to re-render every 30 minutes, fixing previous inaccurate time-reliant actions

Data Analyst Researcher, University of Illinois Chicago – Chicago, IL   **June 2023 – Aug 2023**
- Processed associated documents between patent and job dataframes with NumPy, revealing a 12% annual increase in new remote job positions since 2019
- Investigated the connection between joblessness and the annual granting of patents using Python, finding a 1:1 correlation between the unemployment rate and the number of granted patents
- Analyzed pandas dataframes related to online job posting data, finding the 10 most valued developer skills

Projects

Workout and Strength Progress Tracker – Go, AWS, PostgreSQL   github.com/emoral435/swole-goal
- Implemented AWS RDS to persist user workouts, using SQLC and GoMigrate for SQL database migrations, enabling users to track and measure their weightlifting progression
- Programmed an API in Go, using JWT for API call authentication, ensuring user metadata is accessed securely

File and Message Sharing Platform – TypeScript, React, Firebase   github.com/emoral435/nano-byte-media
- Developed a social media website with React, using Firebase to store user metadata and files on the cloud whilst providing 3 different ways of secure authentication to log in, enabling users to have flexible login options
- Integrated cross-platform usage and mobile-friendly views using React MUI components and Tailwind CSS

University Building Router – C++
- Designed an application using Dijkstra's algorithm to optimize routes between 15 university buildings, displaying the buildings with an overlay, decreasing average travel time between campus buildings for users