Gonzalo Trivelli

Brookline, MA | (703) 424-8193 | gtrivell136@gmail.com | LinkedIn | Website

SOFTWARE ENGINEER

Software Engineer with 4+ years of experience with expertise in a wide range of backend, frontend, and DevOps technology.

Experience

Product Software Engineer | Wolters Kluwer (acquired NurseTim)   **Jan 2023 - Present**

- Implemented **Bamboo CI/CD** pipelines with **Docker** and bash scripts for multiple applications, identifying and remediating hundreds of security vulnerabilities, strengthening application security

- Developed a **Node.js** batch process with **AWS RDS, Lambda, DynamoDB, S3, IAM,** along with a unit testing suite, to synchronize data nightly with the company's largest client

- Led security initiatives by overseeing vulnerability remediation, documenting best practices, and reducing security risks across applications. Automated security scans in **Jenkins** with Black Duck and Coverity, detecting issues early in development

- Managed the migration of key applications from **DigitalOcean** to AWS, ensuring a smooth transition with near-zero downtime

- Developed quiz, user, and session **API** endpoints with **JWT** authentication to integrate NurseTim's 100k+ users into Wolters Kluwer systems

- Mentored junior developers in best practices and provided guidance, improving code quality, fostering knowledge sharing, and freeing up senior developers for higher-priority tasks

Software Engineer | NurseTim   **Nov 2021 – Jan 2023**

- Designed and implemented a synchronization system between **Shopify** and **QuickBooks**, automating order processing and eliminating manual data entry

- Revitalized an outdated checkout flow by developing a fully customized Shopify online store, improving user experience

- Led the modernization of the NurseThink platform, migrating it to Laravel and adopting an **MVC** architecture, improving efficiency and long-term maintainability

- Built an automated deployment pipeline using **Docker** and **GitHub Actions**, streamlining the deployment process

- Revamped the FAQ system, modernizing both back-end and front-end components, eliminating extra hosting costs

Junior Developer | Misbar   **Apr 2021 – Oct 2021**

- Optimized the article caching system to refresh only relevant caches when an article was updated, improving efficiency and cutting page load times by 25%

- Built modular components, including a precise profanity filter, interactive Livewire modals, and well-structured **APIs,** simplifying maintenance and integration

- Developed **microservices** to team specifications, accelerating the front-end redesign, improving site functionality and user experience

- Collaborated within a small international team using **Agile** methodologies, refining teamwork and iterative development skills in a diverse environment

- Enhanced team productivity by identifying and resolving development bottlenecks

Projects

Kaggle Data Science Bowl

Competed in a machine learning challenge to process children's PBS Kids in-game assessments, improving education media's effectiveness

- Developed a machine learning model to process in-game assessments, filtering out irrelevant data and implementing a "best fit" algorithm
- Predicted future assessment scores, uncovering individual learning patterns and highlighting areas for improvement in educational content
- Processed and analyzed large real-world datasets using efficient algorithms to extract meaningful insight

Generative AI Text Game

Created an interactive text-based adventure game as a proof of concept for AI-driven storytelling

- Used Google's Gemini model to generate dynamic stories that evolve based off user input

CLI Search Tool

Developed a CLI file search tool in Rust for personal use on Linux

Education/Certifications

George Mason University – B.S. in Computer Science   **Aug 2015 - Dec 2019**

Coursera – AWS Cloud Technical Essentials   **March 2023**

Skills & abilities

- **Languages**: PHP, JavaScript, TypeScript, Java, Python, SQL, HTML/CSS, Bash, Rust
- **Technologies:** AWS, SQL, Laravel, Vue, Docker, MySQL, NoSQL, Node.JS, GraphQL, DigitalOcean, Chai, LocalStack, Tailwind, Angular, NGINX, Redis, Jenkins, Bamboo
- **Other:** Git, APIs, OAuth, Webhooks, Unit Testing, Agile, Linux, Machine Learning, OOP, AI, Jira/Confluence