Di Carlo Martinez

Software Engineer

+506 8572 3943 | Heredia, Costa Rica | dicarlomtz@gmail.com | Portfolio | GitHub | LinkedIn

Experienced software engineer with a strong track record in full-stack development, consistently exceeding expectations through a blend of technical expertise and collaborative problem-solving. Passionate about leveraging cutting-edge tools and working within diverse teams to achieve ambitious goals. Committed to continuous skill enhancement and driving success through a well-rounded skill set.

Skills

- **Programming Languages:** PHP, JavaScript, TypeScript, Python, Ruby
- **Frameworks:** React, Laravel, Ruby on Rails
- **React Tools:** Redux (Toolkit, Saga & Thunk), Material UI
- **Testing:** PHPUnit, Pest, Jest, React Testing Library, Selenium, Pytest, Unit Testing, Test Driven Development, End-to-end automation testing.
- **Databases:** MySQL, MariaDB, DynamoDB
- **Operating Systems:** Linux (Arch & Debian Based), Windows, Mac
- **Agile Methodologies:** Scrum & Large-Scale Scrum (LeSS)
- **Others:** CircleCI, Docker.
- **Learning:** Serverless

Experience

SchoolMint   *Lafayette, LA, USA*

Software Engineer   *Jun 2022 – Current*

Full-Stack Software Development and Support in EdTech SaaS Applications following Large Scale Scrum Methodology (LeSS)

- Provided support throughout all phases of software development in the life cycle of EdTech SaaS applications with tools such as **Docker, DynamoDB, Ruby, Ruby on Rails, Git, GitHub, PHP, Laravel, MySQL, React, Redux (Toolkit & Saga), JavaScript, Material UI.**
- Conducted comprehensive testing of system software to ensure accurate functionality in alignment with specified requirements with **PHPUnit, Jest, React Testing Library.**
- Collaborated with the development team to debug and characterize defects, offering detailed descriptions and proposing effective solutions.
- Automated and maintained end-to-end tests to streamline testing processes and ensure consistent system performance with tools such as **Python, Pytest, Selenium, CircleCI, Docker.**
- Led the **refactoring** of the automation suite, **enhancing its efficiency and maintainability.** Implemented a new architecture using **vertical slicing**, optimizing the application's structure and organization.
- Refactored the base code to streamline the creation of services, API requests, and testing, **reducing effort and improving maintainability** with **Python.**
- Wrote and tested high-quality software code, adhering to coding standards and best practices, collaborating with a team of developers using **Git (Git Flow) & GitHub** for efficient code versioning, collaboration, and version control.

Municipality of San Pablo   *Heredia, Costa Rica*

Associate Software Engineer   *Jan 2021 – Jun 2022*

Implementation of a Full Stack Budget Administration System following Scrum Methodology

- Designed and implemented the system's architecture, ensuring scalability, performance, and maintainability.
- Implemented efficient database administration practices to optimize data storage and retrieval, enhancing system performance with **MySQL.**
- Developed a robust web-based application with a responsive user interface, providing users with a seamless experience with **HTML5, CSS3, Bootstrap, JavaScript, JQuery, Java, Hibernate** using **Git & GitHub** for code versioning and collaboration.
- Collaborated with cross-functional teams, including stakeholders and developers, to gather requirements and ensure alignment with business needs.
- Conducted thorough testing and debugging to identify and resolve issues, ensuring a reliable and error-free application.

Education

Bachelor of Information Systems Engineering   *Heredia, Costa Rica*

National University of Costa Rica

Diploma of Computer Applications Programming   *Heredia, Costa Rica*

National University of Costa Rica

Projects

Boogle: Books Search Engine (API & Frontend) (GitHub)   **Cine-YEMADI:** Cinema Management (API & Frontend) (GitHub)

Kidsgramming: Courses Management (API & Frontend) (GitHub)   **FreeCourses:** Courses Management (API & Frontend) (GitHub)

Shortify: URL Shortener (API & Frontend) (GitHub)   **Restaurant:** Restaurant Management (API & Frontend) (GitHub)

Certifications

Scrum Fundamentals Certified (SFC)   May 2022

SCRUMstudy - Accreditation Body for Scrum and Agile