Miguel Cortez

Full Stack Engineer

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Experienced Full Stack Engineer with 6 years of experience with a strong focus on full-stack web applications, leading a team and delivering high-quality software solutions that meet and exceed customer expectations using a wide range of technologies and frameworks including React, Node, Python, and Django. Strengths include communicating effectively with multiple teams, resolving conflicts, and mentoring juniors on long-term engagements.

Experience

Full Stack Engineer, Focal Tech   *Sep 2019 - May 2023*

- Implemented features for the main site and internal applications of a Classroom Management Software with over 9 million active users, utilizing React and Node.
- Successfully migrated from a monolithic to a microservices architecture using AWS, resulting in significant improvements in project scalability.
- Converted codebase from JavaScript to Typescript for scalability and better developer experience and achieved 90% test coverage through effective use of TDD with Jest and Cypress.
- Migrated database from MongoDB to PostgreSQL for optimal big data management and used GraphQL for React front-end data query, reducing server response time by 50%.
- Developed a Weather Analysis Service for regular people and meteorologists to manage 750+ GB of data that needs to be recycled every 2 days by querying it in ~200ms using Python and Django.
- Built reusable code through React/Node refactoring, and optimized SQL queries to decrease response time by 34%.
- Designed and built a local development environment using Docker for macOS and Linux. Local development included Django (Python), Celery, Redis, and PostgreSQL.
- Actively mentored and guided junior developers, providing technical expertise and fostering their professional growth, resulting in increased team efficiency and successful onboarding of new members.

Full Stack Engineer, Dettore Associates   *Jun 2017 - Aug 2019*

- Worked on a Social Media Analytics service with complex UI, built an admin dashboard, and created several React components with D3 charts that support interactive visualizations of financial data projections and analysis.
- Implemented OIDC server to forward secondary web apps an OpenID Connect compliant JWT that carries information on the authenticated user which can be used to control the access.
- Accomplished lots of PSD and Figma to HTML conversions for responsive and pixel-perfect designs using HTML5, CSS/SCSS, AJAX, jQuery, and Bootstrap.
- Worked with functional components and modern hooks and maintained the legacy class component and Redux store.
- Used Amazon S3 bucket to store large files and MongoDB to store documents of Users, Accounts, Merchants, Transactions, etc.

- Conceptualized, developed, and maintained Fanse.co, a robust and scalable platform inspired by the functionality of OnlyFans, offering content creators a secure and monetized environment for engaging with their fanbase.
- Implemented communication using socket.io to meet real-time communication needs.
- Collaborated with the product owner and product manager on analyzing competitors, business needs, and development vectors from the technical side.

Intern, Dettore Associates   *Sep 2016 - May 2017*
- Completed immersive web development internship, gaining hands-on experience in HTML, CSS, and JavaScript.
- Assisted in developing and maintaining client websites, ensuring optimal functionality and user experience.
- Learned best practices in web development, including Git version control and agile methodologies.
- Proactively pursued learning opportunities in React.js, Node.js, and front-end build tools.

Education

Gannon University   *Aug 2013 - May 2017*
- Bachelor of Science, Computer Science
- GPA: 3.84
- Developed a strong foundation in software engineering, with a focus on programming languages such as Python and C++.
- Actively engaged in self-directed learning, exploring advanced topics in web development through online resources, tutorials, and projects, further expanding technical skills and knowledge base.

Skills

- JavaScript/TypeScript/ES6
- React/Redux/Next.js
- Node.js/Express
- Python/Django
- RestAPI
- GraphQL
- MySQL / PostgreSQL / MariaDB
- MongoDB / DynamoDB
- Redis
- Docker
- AWS
- Datadog
- Jest
- TailwindCSS
- Material UI
- Agile / Scrum / Kanban

Competencies

- Advanced Communication
- Best Practice
- Code Review
- Complex Problem Solving
- Debugging and Troubleshooting
- Design and Development of APIs
- DevOps / CI / CD
- Leadership and Mentorship
- Object-Oriented Programming
- Performance Optimization
- Serverless Architecture
- Software Development
- Team Work
- Unit Testing/Integration Testing