KENNETH MARINEZ

Senior Software Engineer

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Summary

Seasoned engineer with a decade of experience in constructing scalable and test-driven Web applications utilizing technologies like Python, PHP, JavaScript, AI. Expert in utilizing clean code principles, collaborating with experienced teams.

Tackled all stages of the software production cycle; from planning, analysis and design to development, testing and deployment.

Worked on large-scale Web applications, ERP systems, SaaS systems and Multi-tenancy systems, providing me with valuable experience in handling requirements and delivering solutions.

Experience

Upwork

Upwork

Senior Software Engineer

03/2024 - Present

- Fixed unexpected errors in existing 'Capture and Calaulator' web application and cusomized front-end and back-end parts of that systemusing Python and React.

Lomray Software

Miami, Florida

Senior Software Engineer

12/2020 - 03/2024

- Spearheaded the development of the patient management system, reducing application downtime from 5 seconds to 1 second by optimizing caching mechanisms with Redis and improving real-time data exchange through a custom Socket library within a Next based architecture.
- Contributed to the development of a HIPAA-compliant patient management system using Python, enhancing efficiency in patient registration, appointment scheduling, and medical record management.
- Led the transition from a monolithic to a microservice architecture using Docker and Kubernetes, significantly enhancing the system's scalability and resilience.
- Designed and implemented Python-based data pipelines, which led to substantial improvements in data processing efficiency and accuracy.
- Integrated a Python based chatbot into the 'MediHealth' system, facilitating seamless data exchange and improving the efficiency of user request handling.
- Leveraged Python's advanced libraries such as NLTK and SpaCy for natural language processing, enabling the chatbot to understand and process user input.
- Led a UI redesign using Angular and Tailwind CSS, incorporating modern design principles and implementing Angular's dynamic component rendering, which resulted in a 30% Increase in key user engagement metrics, including click-through rates and session duration.
- Utilized Angular's HttpClient with RxJS for managing asynchronous operations in the UI, integrated RESTful APIs for seamless data exchange, and implemented CI/CD pipelines using Git and Jenkins to streamline development and deployment processes.
- Developed and managed DataMarts with MongoDB, ensuring data availability and accessibility for business intelligence and reporting, achieving reduction in data retrieval time.
- Championed DevOps principles, automating pipelines and deployments with Azure DevOps to accelerate development cycles and enhance product quality.

Bart Solutions

Sheridan, Wyoming

AI/ML Engineer

07/2018 - 11/2020

- Led the development of an AI-guided financial system with Python for AI algorithms, and Angular for a responsive user interface.
- Utilized Laravel for robust backend services and Python for implementing complex AI algorithms, facilitating efficient data processing and smooth integration.
- Designed custom RESTful APIs for efficient backend-frontend communication, optimizing data exchange for high-traffic scenarios.
- Excelled in developing robust cross-platform applications using Python, ensuring consistent and engaging user experiences across iOS, Android, and Windows.
- Implemented NgRx for state management in large-scale Angular applications, reducing state-related bugs and improving development speed.
- Developed reusable Angular components with Angular Material, reducing development time and cutting associated labor costs, leading to an overall project cost savings of $50,000.
- Utilized TensorFlow for deep learning models and scikit-learn for traditional machine learning tasks, enhancing the accuracy and performance of AI-guided financial analysis, including classification and regression.
- Leveraged AWS cloud services for reliable and secure hosting of the financial management system, using Python for data processing automation and infrastructure management, ensuring high availability and scalability.
- Proficiently utilized SQL Server, PostgreSQL, and NoSQL databases like MongoDB, and implemented GraphQL for flexible and efficient API query handling.
- Utilized AWS CI/CD services to automate build, test, and deployment processes, significantly accelerating release cycles.
- Mentored over 5 junior developers and contributed to 20 open-source projects on GitHub, fostering team growth and community collaboration.

Experience

Trinetix
Nashville, Tennessee

Software Engineer
04/2016 - 06/2018

- Delivered a mobile-first appointment management system utilizing a diverse tech stack encompassing Flutter, enabling patients to track and check into appointments, leading to a 25% increase in appointment adherence.
- Implemented real-time tracking, feedback systems, live chat, and a payment system for both the website and the admin dashboard, leading to an improvement in user satisfaction and a half reduction in support requests using Laravel and React.
- Led the implementation of complex state management in a React application using Redux and Next.js, addressing specific requirements for global state handling.
- Implemented Test-Driven Development UTDD3 practices with the React Testing Library, significantly reducing bugs and enhancing the maintainability of the frontend architecture.
- Designed and implemented robust RESTful APIs, ensuring seamless integration and achieving reduction in API response time.
- Directed the migration of a Java application to Node.js, resulting in better performance and reduced server costs.
- Used Kubernetes for orchestrating microservices, ensuring efficient service discovery and load balancing.

Skills

Programming Languages: PHP · Python · JavaScript/TypeScript · C/C++

Backend Development: Laravel · Express.js · Nest.js · Node.js · Django · Flask · Entity Framework · LINQ · JWT · OAuth2

Frontend Development: HTML5 · CSS3 · Angular · React · Next · RxJS · Angular Material · Razor

Database Management: MongoDB · MySQL · PostgreSQL · Azure Cosmos DB · Redis

API Integration & Data Handling: RESTful APIs · FastAPI · GraphQL · SOAP · WebSockets · Streaming APIs

AI/ML Development: TensorFlow · PyTorch · scikit-learn · NLTK · Spacy

DevOps & Infrastructure: Azure · AWS · GCP · Firebase · Jenkins · Docker · Kubernetes · GitHub Actions

Testing & Quality Assurance: Cypress · Jest · Jasmine · MOcha · Selenium · PyTest · NUnit · MSTest

Version Control & Collaboration: Git · gitHub · GitLab · Trello · Jira · Slack · Agile

Education

Columbia University in the City of New York
Morrow, GA

Bachelor's Degree in Computer Science
09/2010 - 05/2014