

Richard Garrison

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Programming languages: JavaScript, Python, Java, C#

SUMMARY

Goal and detail oriented Full Stack Engineer with 10 years of experience covering project and product management including developing, implementing, and supporting complex infrastructures. Experienced in designing and implementing highly scalable microservices architecture with trending web technologies supporting, automating, and optimizing deployments in AWS, utilizing configuration management, CI/CD, and DevOps processes to ensure efficient and effective cloud infrastructure management.

CORE COMPETENCIES

Agile Software Development	Communication	Full Stack Development
Object-Oriented Programming	Time Management	Database Optimization
Test Driven Development	Collaboration	Infrastructure Implementation
Web Performance Optimization	Adaptability	High Productivity
Source Control	Enthusiastic	Problem Solving

WORK EXPERIENCE

Boxed, Inc | Tech Lead – Full Stack | April, 2022 – April, 2023

- Led and executed to development of the e-commerce site leveraging Django.
- Worked with PMs, Customers, and Designers to re-design existing scenarios and design brand new scenarios.
- Worked on several data pipelines and automated reports. These reports provide targeted information to each team identifying issues in their layers.
- Wrote documentation and procedures to allow other teams to implement services faster and autonomously.
- Produced API services related Redis and Elasticsearch that acted as middleware between applications and existing services, increasing system performance and efficiency.
- Built a machine learning data pipeline utilizing Python and Tensorflow in order to facilitate business operations.
- Refactored existing code base to implementing event-sourcing pattern using Apache Kafka.
- Leveraged pair programming to increase code quality belongs to test-driven development, and it results in development speed.

- Spearheaded the migration of microservices architecture to Amazon API Gateway, AWS Lambda, S3, RDS, DynamoDB, and EKS using Terraform, reducing downtime by 50% and increasing customer satisfaction by 20%.

Technologies: Python, Django, React, Angular, Rust, gRPC, PostgreSQL, MongoDB, Redis, Elasticsearch, Nginx, Docker.

Giant Machines | Sr. Full Stack Engineer | August, 2018 – April, 2022

- Leveraged Angular's powerful features to create a modular and scalable codebase for the e-commerce site, accommodating complex requirements such as product listings, shopping cart functionality, and secure payment processing.
- Conducted thorough testing of the both frontend and backend using Selenium, JUnit, and Mockito to ensure it's reliable, scalable, and met all Requirements Analysis.
- Leveraged powerful technologies such as Redis and Spring Data Redis (SDR) to optimize system speed and efficiency and reduce latency, ultimately decreasing data retrieval time by 20%.
- Customized Lambda functions integrated with 3rd party payment APIs and Amazon SNS, resulting in a significant reduction in operational costs.
- Enhanced the Software Development Life Cycle (SDLC) by implementing an effective strategy for troubleshooting latency issues through the design and maintenance of an error-tracking system utilizing the Zipkin.
- Automated CI/CD pipelines using Jenkins to reduce human errors and speed up production processes from 10+ days to 2 days.
- Managed GitHub repositories with clear, concise commit messages to understand the project history including branching and tagging.
- Established and maintained a close, interpersonal working relationship with suppliers leveraging communication and negotiation skills.

Technologies: Java, Spring Boot, Apache Kafka, PHP, TypeScript, Angular, PostgreSQL, Oracle, Elasticsearch, Redis, Nginx, Docker, Kubernetes, Jenkins, Terraform, AWS Lambda, RDS, Kinesis, SNS, SQS, RDS, DynamoDB.

InRhythm | Full Stack Engineer | August, 2014 – August 2018

- Collaborated with cross-functional teams, including design and product teams, to implement new features, resolve bugs, and generate customer documentation.
- Created and maintained a sophisticated GraphQL API service for using FastAPI and Graphene, while adhering to Test Driven Development principles.
- Successfully implemented OAuth-based authentication to enhance security and protect user privacy.
- Created e2e test cases using Selenium, and automated acceptance tests using Jenkins for streamlined deployments.
- Refactored existing codebase based on Flask into a modular structure with clear, well-enforced domain boundaries and a coherent public interface.
- Participated in designing and building a system of a service-oriented architecture.

- Worked to ship code for backend and dive deep into the database layer to handle complex querying needs leveraging SQLAlchemy.
- Successfully removed bugs and improved performance, resulting in a 50% increase in efficiency compared to the previous version.
- Built a high-performance application capable of handling heavy traffic by customizing Nginx and uWSGI for efficient request handling and response times.
- Developed a robust database layer using PyMongo, providing an effective abstraction layer and implementing system logging for better tracking and monitoring of data.
- Reduced human error and improved the development process by writing test cases using the unittest framework and following the Test-Driven Development (TDD) methodology.
- Constructed system control CLI command lines using Cobra, enabling effective command-line interface (CLI) interaction and control of the application.
- Collaborated with UX and UI designers and product designers to create immersive, user-friendly UIs using React, resulting in a 25% increase in customer satisfaction and a 35% decrease in load times.
- Customized Webpack configurations to reduce bundle sizes and optimize page load speed.
- Spearheaded the planning and development of high-end software, resulting in a 25% increase in overall company efficiency.
- Lifted application performance by 20% by optimizing relational database queries and caching mechanisms.

Technologies: Python, Flask, OAuth, JWT, TypeORM, Mongoose, Nginx, PM2, React, Webpack, MySQL, MongoDB, Redis, Cypress, Selenium, JIRA, Jenkins, Docker, Amazon RDS, DynamoDB, ElastiCache, ECS, Azure monitor.

Clevertch | Software Engineer Intern | September, 2012 – March, 2014

- Designed, developed, tested, and maintained conversion of legacy web sites, applications, and paper based systems to Rich Internet, Applications using .NET technologies (C#, ASP.NET, MSSQL/T-SQL, and SSRS).
- Accumulated data from various case management databases, using SQL, to provide case activity related statistics including ADA assignments, statuses, physical file movements, and financials.
- Designed and developed Web Services and API modules to improve communication with in-house apps and third party software. Generated SQL views which assist in data sharing among inter-county agencies.
- Utilized PHP scripts, Visual Studio Macros, and SQL Stored Procedures to eliminate code redundancy.
- Developed software engineering documents (class diagrams, actor diagrams, sequence diagrams, and database schema diagrams) for all the applications developed.
- Engaged in vendor meetings to evaluate risks and costs involved in third party software implementations.
- Provided cost of in-house development (lines of code, development hours, etc) and maintenance versus OTS (Off The Shelf) products.
- Translated business requirements into user interfaces, wireframes, and front-end components using HTML5, CSS3, and Bootstrap to deliver high-quality user experiences.

- Built dynamic web pages using jQuery and AJAX to enhance interactivity and responsiveness of web applications.
- Contributed to significant gains in speed and productivity of the team, delivering more successful product.

Technologies: C#, ASP.NET, MSSQL/T-SQL, SSRS, HTML5, CSS3, Bootstrap, AJAX, jQuery, JSON, WordPress, Git.

EDUCATION

BS, Software Engineering, Rochester Institute of Technology (Rochester, NY) | 2011-2014

Subjects included:

ADDITIONAL SKILLS

Programming Languages: TypeScript, Python, PHP, Java, C#

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch, Apache Cassandra

Frameworks: Nest, Express, Django, Flask, FastAPI, WordPress, Spring Boot, ASP.NET, React, Angular, Next, Vue

DevOps Technologies: Docker, Kubernetes, Jenkins, Terraform

Cloud Technologies: AWS, Azure