**EMMANUELLA VERNET**

**PROFESSIONAL SUMMARY**

Having 9+ Years Lead Full stack java Developer with a wide range of knowledge and experience looking to become an asset to your company.

* Implemented **React**-based user interfaces for multiple customer-facing applications, ensuring seamless integration with backend microservices.
* Architected and developed cloud-native applications deployed on AWS, leveraging Docker and Kubernetes for container orchestration and scalability.
* Coordinated agile sprints, managed backlog grooming sessions, and worked closely with product owners to ensure timely delivery of features and bug fixes.
* Applied Agile methodologies (Scrum and Kanban) to ensure a smooth development lifecycle and maintain high levels of team productivity.
* Facilitated regular code reviews, knowledge-sharing sessions, and pair programming to improve code quality and foster continuous learning within the team.
* Mentored junior developers, providing technical guidance and supporting their professional growth.
* Collaborated with cross-functional teams (QA, DevOps, product) to integrate new features and resolve production issues efficiently
* Oversaw the development of full-stack applications, managing both front-end and back-end technologies, and ensuring smooth integration with databases. This involved extensive work with both client-side and server-side technologies, as well as ensuring efficient database management.
* Led the revision and modularization of outdated codebases to align with modern development standards. This not only improved system performance but also reduced operating costs. Reworked system parameters to improve overall performance by 50% and incorporated new, valuable features.
* Spearheaded the testing and validation of engineering work, ensuring all deliverables met quality standards. Identified and resolved issues, ensuring the robustness and stability of the systems.
* Worked closely with project managers, designers, and clients, as well as with software development and testing teams. This collaborative approach ensured that all functional, scalability, and performance requirements were met on time.
* Rapidly prototyped new data processing capabilities and validated their integration feasibility into existing systems, ensuring that new applications could be seamlessly incorporated into clients' existing infrastructure.
* Investigated emerging software solutions within the financial industry, selecting and implementing the most effective information systems to meet business requirements. This included designing and developing risk management and clearing solutions that helped clients meet regulatory and business needs.

TECHNICAL SKILLS:

* **Programming Languages:** Java Python, Node.js, JavaScript, SQL
* **Frameworks & Technologies:** Spring Boot, Kafka, React, Microservices, REST APIs, Docker, Kubernetes
* **Cloud Platforms:** AWS Microsoft Azure, Google Cloud
* **Databases & Caching:** MySQL, PostgreSQL, MongoDB, Redis
* **Version Control & CI/CD:** Git, Jenkins, GitLab, CircleCI
* **Agile Practices:** Scrum, Kanban, Sprint Planning, Continuous Integration/Delivery
* **Tools:** Jira, Confluence, Docker, Kubernetes, Terraform, Prometheus, Grafana
* **Other Skills:** DevOps, CI/CD, System Design, Leadership, Mentoring, People Management

**WORK HISTORY**

**Fancy Awesome** – **Lead** **Full Stack Java Developer,**

*Remote* • *06/2024* - Current

Fancy Awesome is an agency that creates, develops, and maintains WordPress, Shopify, and JavaScript Websites.

* Lead design decisions and technology approaches to deliver comprehensive website solutions.
* Optimized cloud infrastructure on Google Cloud and AWS, including configuring auto-scaling, monitoring, and cost optimization strategies.
* Designed and implemented backend services using Spring Boot and RESTful APIs for internal tools and customer-facing products.
* In-depth knowledge of computer applications and scripting like Shell (c, bash, tsh and ksh), Perl and Python.
* Used standard Python modules e.g. csv, robot parser, itertools, pickle, jinja2, xml for development
* Developed views and templates with Python and Django's view controller and template language to create user-friendly website interface.
* Integrated messaging solutions using Apache Kafka and RabbitMQ to handle high-throughput, real-time data processing for distributed systems.
* Developed and maintained React applications, ensuring responsive and performant user interfaces.
* Worked closely with DevOps teams to ensure applications were containerized and deployed on cloud platforms (AWS, AZURE, and GCP).
* Core financial model design and implementation (NodeJs, AWS
* RESTful HTTP API for client and financial data (NodeJs), as well as various APIs for other services and integrations (Scala/Spray)
* Participated in daily standups, sprint planning, and retrospectives to ensure adherence to agile methodologies.
* Optimized Microservices using NodeJS and ES6 as interfaces to Cassandra NoSQL database.
* Improved application performance by 25% through optimizations in React components and Spring Boot APIs.
* Successfully implemented an event-driven microservices architecture, significantly improving system flexibility and scalability.
* Interpreted clients' needs and introduced solutions to fit specific requirements.
* Mentored senior and junior engineers to increase technical and business knowledge.
* Planned website creation project teamwork efficiently to increase timely delivery.
* Supported engineers in tasks implementation.
* Reviewed, tested, and validated Engineer work.
* Closely collaborated with project managers, designers and clients to provide comprehensive solutions.
* Developed and maintained websites
* Successfully reduced bot submissions to zero on Gravity forms.

**McMaster-Carr** – **Full Stack Java Developer**

*Elmhurst*, *IL* • *12/2022* – 0*6/2024*

McMaster-Carr is an industrial supply company and a digital content publisher.

* Lead design decisions and technology approaches to deliver comprehensive user solutions.
* Interpreted clients' needs and introduced solutions to fit specific requirements.
* Mentored senior and junior engineers to increase technical and business knowledge.
* Planned project teamwork.
* Assisted senior engineers in building and deploying microservices applications on AWS using Spring Boot and Docker containers.
* Contributed to open-source projects on GitHub (e.g., Spring, Hibernate)
* Developed and maintained plugins for popular open-source frameworks (e.g., Jenkins, Maven)
* Led cross-functional teams of Java developers, QA engineers, and designers
* Mentored junior developers to improve coding skills and knowledge
* Conducted code reviews, provided feedback, and ensured coding standards
* Developed readable and simple curriculum for the average user to get started with Python.
* Worked with companies to implement Python programming and train on-site Python Programmers
* Developed and maintained distributed systems built on Spring Boot, Kafka, and React. Architected modular, loosely-coupled services, improving system flexibility and resilience. Implemented asynchronous communication via Kafka for service-to-service interaction.
* Worked with AWS services such as EC2, Elastic Load Balancers, and CloudWatch to monitor and optimize cloud infrastructure. Automated infrastructure provisioning and scaling via Terraform.
* Improved development velocity by automating the entire software lifecycle, from source control to production deployments. Integrated Jenkins for continuous integration and Docker for containerized deployments to AWS ECS.
* Azure Resource Manager (ARM) provides security, auditing, and tagging features to help you manage your resources after deployment.
* Used Azure Resource Manager (ARM) to deploy, update, or delete all the resources for your solution in a single, coordinated operation.
* RESTful HTTP API using NodeJs to interact with AWS API Gateway.
* Developer Node JS API for LAMDA function and DynamoDB.
* Led the development of high-impact features for internal tools, including real-time dashboards and automated reporting systems. Utilized React and Redux for front-end development, delivering a modern, responsive UI.
* Implemented comprehensive unit, integration, and load tests to ensure software quality, leveraging JUnit, Mockito, and JMeter for automated testing. Enforced code quality using tools like SonarQube to maintain a healthy codebase.
* Designed, developed, and deployed high-performance backend systems using Spring Boot and Kafka to support microservices and real-time event processing for business-critical applications.
* Collaborated with frontend engineers to develop React-based user interfaces, integrating backend services via REST APIs and Web Sockets for real-time updates.
* Advocated for the adoption of Kafka as a central messaging platform, which reduced data processing latency and improved system reliability.
* Creating Json deployment templates for provisioning virtual networks, subnets, VM Scale Sets, Load balancers and NAT rules. Define set of resources and specifying deployment parameters to Azure Resource Manager (ARM) templates to creating resource group of virtual machines
* Using Azure Functions to integrate applications and run backend processes according to schedules without provisioning/managing servers.
* Played a key role in the architecture and implementation of fault-tolerant, cloud-native applications on AWS, using Docker and Kubernetes for containerization and orchestration.
* Led the development of CI/CD pipelines with Jenkins and GitLab CI, significantly improving deployment frequency and reducing production issues.
* Contributed to and reviewed open-source projects related to microservices and event-driven architectures.
* Key Achievements:
* Reduced operational costs by 20% through the implementation of an event-driven system powered by Kafka.
* Improved customer satisfaction by 25% by launching a new real-time analytics platform built with Spring Boot and React.
* Enabled faster releases and reduced downtime by 40% through the implementation of robust CI/CD pipelines.
* Developed and maintained backend services using Spring Boot for internal applications and customer-facing platforms, focusing on high availability and scalability.
* Collaborated with senior engineers to design and implement a series of RESTful APIs and integrated messaging solutions using Apache Kafka.
* Worked within an Agile framework to ensure timely delivery of software, participating in sprint planning, daily standups, and sprint reviews.
* Contributed to the development of frontend components with React and assisted with end-to-end testing and deployment.
* Collaborated with senior engineers to build and deploy microservices applications using Spring Boot and Docker. Developed unit tests to ensure code reliability and integrated feedback into development cycles.
* Assisted with setting up AWS EC2 instances and deploying applications using Docker containers. Gained experience in AWS RDS and S3 for data storage and management.
* Developed automated unit and integration tests using JUnit and Mockito to ensure software quality.
* Supported engineers in tasks implementation.
* Developed and maintained full stack applications and associated database systems.
* Successfully improved several applications performance from 15-20 minutes to 10 seconds.

**Options Clearing Corporation** – **Full Stack Java Developer**

***Chicago*, *IL* • *12/2017* – *12/2022***

The OCC is a clearing house handling most of the options trades in the US Market.

* Tested programs to identify issues and make necessary modifications.
* Worked with stakeholders to define product roadmaps and ensure alignment between technical solutions and business goals.
* Drove the adoption of event-driven architecture across the engineering team, streamlining data pipelines and improving system resilience and scalability.
* Managed the full software development lifecycle using Agile methodologies, including sprint planning, backlog grooming, retrospectives, and release planning.
* Advocated for the use of React and Spring Boot for frontend and backend development, respectively, ensuring efficient and cohesive tech stack integration.
* Collaborated with global communities to resolve issues and improve code quality
* Implemented and integrated open-source libraries (e.g., Apache Commons, Eclipse)
* Participated in code reviews and ensured adherence to open-source standards
* Coordinated training and professional development for team members
* Managed project timelines, resources, and stakeholder expectations
* Created a centralized mailing application used by multiple internal applications to send emails using python via RESTful architecture.
* Built node library for handling interaction with Braintree payment service (3d secure, hosted fields).
* Built node library for error handling in React component.
* Creating production and test batch jobs using parallel programming in python using control-m.
* Provided mentorship and coaching to junior engineers, helping them grow technically and professionally.
* Collaborated with DevOps and Cloud architects to design and implement cloud-native solutions using AWS and containerized applications with Docker and Kubernetes.
* Drove performance reviews, career development plans, and skill-building initiatives for team members, fostering a culture of learning and growth.
* Interpreted clients' needs and introduced solutions to fit specific requirements.
* Followed all company policies and procedures to deliver quality work.
* Revised, modularized, and updated old code bases to modern development standards, reducing operating costs and improving functionality.
* Adjusted design parameters to boost performance by 50% and incorporate new features.

**FDM Group** - **Java Developer Consultant**

***Chicago*, *IL* • *07/2015* - *11/2017***

The FDM Group is a global consulting company that provides IT training and placement for inexperienced workers. I worked as a consultant with the OCC.

* Wrote clean, clear, and well-tested code for various high-profile projects such as risk management and clearing.
* Investigated new and emerging software applications within the financial industry to design, select, implement, and use information systems effectively.
* Implemented load-balancing with NGINX to allow dozens of Node JS instances to handle thousands of concurrent users.
* Developed user interface using JSP with JavaBeans, JSTL and Custom Tag Libraries, JS, CSS, JQuery, Node.js, Angular Js, and HTML to speed the application.
* Created complete Component & Integration Test suites in Python for Manager & Sequencer PaaS apps.
* Developed RESTful APIs and microservices using Java (Spring Boot), Node.js, and Kafka to handle real-time data streaming for a cloud-based application.
* Implemented features in React.js for dynamic front-end rendering and integrated it with back-end services for a seamless user experience.
* Integrated Kafka for real-time messaging and stream processing across microservices.
* Participated in code reviews, debugging, and performance optimization to ensure code quality and efficiency.
* Collaborated with cross-functional teams (Product, QA, Operations) to define and deliver key product features.
* Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability, and performance.
* Rapidly prototype new data processing capabilities to confirm integration feasibility into existing systems.
* Collaborated with diverse key business unit team members to design new applications system to enhance client requirements for risk computing capabilities.