Jethzabell Medina

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EDUCATION

● M.S. Computer Science; GPA: 4.00	University of Puerto Rico, USA	2020
● B.S. Mathematics and Computer Science; GPA: 3.87	University of Puerto Rico, USA	2015

EXPERIENCE   2013 - Present

Lead Senior Development   **HCL Tech**   **July 2024 - Present**
- **Leadership & Team Management**: Led and mentored a team of software engineers, fostering a culture of innovation and accountability.
- **Customer Interaction**: Engaged with customers to gather requirements and deliver technical solutions aligned with business goals.
- **Project Management**: Managed project lifecycles to ensure timely delivery, quality standards, and customer satisfaction.
- **Technical Expertise**: Contributed to hands-on development with Java, Springboot, VueJS, and Elasticsearch, conducting code reviews and enforcing best practices.
- **Product Ownership**: Collaborated with stakeholders to define product vision, prioritize tasks, and align team efforts with business goals.

Lead Software Engineer   **HCL Software**   **Jan 2022 - July 2024**
- **CI/CD and Automation Improvements**: Automated CI/CD processes, improving deployment efficiency by 80% and designing GitLab pipelines with templates for eight microservices, standardizing practices.
- **Cost Management and Resource Optimization**: Developed tools to monitor user engagement, optimize sandbox lifespans, and reduce resource usage in cloud environments by 65%.
- **Generative AI**: Built a chatbot using Vertex AI, deploying versions with OpenAI API and combining external LLM resources to improve internal workflows.
- **Security & Compliance**: Proactively identified vulnerabilities using WhiteSource/Mend and Trivy, developing a Python microservice to validate FlexNet license expirations and ensure compliance.
- **Testing & Quality Assurance:** Designed performance testing tools, leading TDD, unit, integration, end-to-end, and stress testing processes to enhance microservices' reliability.
- **Performance & Automation:** Created a Go script to calculate service deployment times in the SoFy Marketplace, streamlining processes and saving $1M-$1.5M in cloud resources.

Senior Software Engineer III   **HCL Software**   **Jan 2019 - Jan 2022**
- **Lead Engineer for Microservices:** Directed the development of two critical Go-based microservices for HCL SoFy operations, ensuring scalable, fault-tolerant systems.
- **Architect & Designer**: Designed and planned the architecture of distributed systems, focusing on scalability and zero-downtime migration.
- **Container Image Management:** Migrated from Harbor to Artifact Registry and automated the pipeline to push container images, improving deployment efficiency.
- **Resource Optimization**: Optimized REST API endpoints by adding deployment requirements (CPU and memory), saving thousands in cloud costs.

Staff Software Engineer, DataPower & API Connect   **IBM**   **July 2015 - Jan 2019**
- **Remote Technical Support**: Provided remote support for DataPower Gateway and API Connect Appliances, resolving complex issues related to APIs and security.
- **API Security & Performance**: Configured API security policies and monitored performance, ensuring high availability for mission-critical systems.
- **Integration Solutions:** Helped clients integrate DataPower as a gateway for APIs, ensuring seamless communication between services.
- **On-Call Rotation**: Provided 24/7 support for critical incidents, meeting SLAs for product provisioning and issue resolution.
- **Problem-Solving & Knowledge Management**: Diagnosed complex issues using logs and packet captures (Wireshark), and created technical documentation to improve team support and knowledge sharing.

Senior FullStack Engineer, Infrastructure as Code   **Lockheed Martin**   **Sept 2014 - July 2015**
- **Enterprise Compute Infrastructure:** Designed and implemented secure, high-performance infrastructure solutions using Ansible and Terraform within an Agile framework.
- **Automation & Self-Service:** Automated product provisioning, reducing human intervention and enabling customer self-service across AWS and Azure environments.
- **Security & Performance Testing:** Conducted testing to ensure security, performance, and availability for global business needs.
- **Operational Support:** Provided operational support to resolve incidents and outages while adhering to Service Level Agreements (SLAs) for product provisioning and incident resolution.

Software Developer, Mobile Apps   **US ARMY Corps Engineers (USACE)**   **May 2014 - Sept 2014**
- **Implemented Data Synchronization**: Worked on effective synchronization between mobile phone data and the SQLite DB.
- **Developed MICA**: Created a Mobile Information Collection Application (MICA) using QT C++ libraries to run across multiple platforms (Android, iOS, Windows, Windows Phone, Linux, Blackberry).
- **Security Clearance**: Security Clearance with Army DoD.

Software Developer, Database   **Medirec Inc**   **Aug 2013 - May 2014**
- **Database Migration**: Developed tools to export/import databases and tables from MS SQL Server and reconfigured connections to work with MariaDB.
- **Database Mapping**: Created a complete Database Mapping to help co-workers understand and redesign a new Database for the MDr14.
- **Prepared Documentation**: Prepared technical documentation for development follow-up.

SKILLS

Core Competencies: Distributed Systems, Golang (GO), Microservices, OpenAPI doc, Python, RESTful APIs

Programming Languages: Golang (GO), Python, Java, JavaScript, PHP, C++, SQL, Typescript, Visual Basic, Node.js, TypeScript

Technologies & Frameworks:

- **Microservices**: RESTful APIs, OpenAPI, gRPC, Helm
- **Cloud**: Google Cloud Platform (GCP), AWS, Digital Ocean, Azure
- **Databases**: PostgreSQL, MySQL, CouchDB, MongoDB, MariaDB
- **DevOps & CI/CD**: Jenkins, GitLab, Git, Docker, Kubernetes, Terraform, Ansible, Packer
- **Security & Compliance**: Trivy, WhiteSource, FlexNet, GDPR Compliance
- **Testing**: Performance Testing, Unit Testing, Integration Testing, TDD, Stress Testing, End-to-End Testing
- **Containerization**: Docker, Kubernetes, Helm, Harbor, Artifact Registry
- **UI Frameworks**: Vue.js, React, Svelte, Spring Boot

Tools & Collaboration: Grafana, Prometheus, Firebase, Keycloak, Jira, Confluence, Slack, Bitbucket, Lambda, Runbooks

Soft Skills: Leadership, Teamwork, Communication, Mentorship, Creative Problem-Solving, Bilingual (Spanish and English), Willingness to Learn