Matthew Chirichella

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Summary

Results-driven Senior Software Engineer with over 5 years of experience designing scalable, low-latency solutions in Java, Python, and SQL. Experienced in microservices architecture, object-oriented design, data structures, and distributed systems. Proficient with Amazon Web Services (Kinesis, DynamoDB, S3, SNS, SQS) and relational/non-relational databases (MySQL, PostgreSQL, Redis/ElastiCache). Devoted to iterative improvement, agile approaches, and transforming confusing requirements into clear, maintainable solutions. Capable of delivering end-to-end features, from API development to production deployment, while maintaining high availability and dependability.

Education

B.S. in Computer Science   Patchogue

St. Joseph's University • 3.7

- Member of Upsilon Pi Epsilon (Computer Science Honor Society)

Experience

BEEP BOOP INC.   New York, NY

SOFTWARE ENGINEER / CEO   *May 2020 - January 2025*

- Designed Java-based microservices (Spring Boot, AWS) with sub-50ms latency for millions of daily requests, applying object-oriented principles in an event-driven ecosystem.
- Streamlined CI/CD pipelines (CodePipeline, GitHub Actions, CloudFormation), reducing build times by 60% and guaranteeing smooth production deployments.
- Optimized system performance with Amazon EKS, Redis/ElastiCache, and Amazon X-Ray, resulting in a 30% reduction in peak latency and near-constant availability.
- Converted unclear stakeholder requests into clear technical specifications, allowing for faster development cycles and consistent code quality.

ROTOBOT AI   Boston, Massachusetts

FULL STACK DEVELOPER   *July 2024 - September 2024*

- Implemented real-time services utilizing FastAPI and Celery, facilitating the execution of over 15,000 asynchronous tasks on a daily basis, while Azure Cosmos DB contributed to a 40% reduction in query latency.
- Executed AI-driven solutions utilizing ensemble and transformer-based models, demonstrating proficiency in data structures, algorithms, and sound coding practices.
- Developed a scalable microservices architecture, resulting in a 20% enhancement in project output and a 15% acceleration in the delivery of artificial intelligence features.
- Utilized Agile methodologies and conducted comprehensive code evaluations to enhance system maintainability while adhering to stringent deadlines.

MARCUM TECHNOLOGY   New York, NY

DATA ANALYST   *August 2022 - April 2024*

- Implemented automated large-scale data ingestion utilizing RPA tools such as UiPath, VBA, and Python, along with TeamMate Analytics, resulting in a significant reduction of manual ledger review times from more than 6 hours to less than 15 minutes.
- Created predictive models using Python and developed dashboards in Power BI and Tableau, resulting in a 20% increase in forecast accuracy and enhanced the speed of executive decision-making.
- Implemented standardized reporting across millions of transactions, achieving a 90% reduction in processing times while ensuring data integrity and compliance are enforced.
- Responded to changing business requirements through continuous enhancements, maintaining clear communication and on-schedule outputs.

ARMA CONTAINER CORP   Deer Park, NY

CHIEF IT TECHNICIAN & SOFTWARE ENGINEER   *January 2021 - August 2022*

- Implemented Azure IaaS in four warehouses, achieving 99.999% durability and latency under 30ms, resulting in annual server cost savings exceeding $56K.
- Transitioned outdated systems to Azure, improving uptime from 97% to 99.9% and implementing DevOps best practices (CI/CD, monitoring) for a team of eight IT professionals.
- Improved network security by 25% utilizing AES encryption, Azure Monitor, and Log Analytics, effectively addressing performance issues preemptively and efficiently.
- Set up disaster recovery using Azure Site Recovery and automated failover for Azure VMs and Load Balancers, ensuring uninterrupted service for essential operations.

Certifications

AWS Certified Cloud Practitoner

AWS • 2024

AWS Certified Developer - Associate

AWS • 2024

Skills

- **Languages & Frameworks:** Java, Python, SQL, JavaScript, TypeScript, Spring Boot, FastAPI, Celery
  Object-Oriented Fundamentals: Data structures such as trees, hashing, graphs, search, algorithms, and design patterns
  Cloud & DevOps: AWS (Kinesis, DynamoDB, S3, SNS, SQS, EMR, Lambda, CodePipeline), Azure (VMs, IaaS, Monitor), Apache Kafka, Apache Spark, Kubernetes, Docker, GitHub Actions
  Data & Databases: MySQL, PostgreSQL, Oracle SQL, Redis/ElastiCache, MongoDB, NoSQL
  Architecture & Methodologies: Microservices Design, Event-Driven Systems, CI/CD, Agile/Scrum
  Other Expertise: RPA (UiPath), TeamMate Analytics, On-Call Support, Performance Tuning, Troubleshooting