

Gentian Demaj

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WORK EXPERIENCE

Lead Software Engineer

04/2022 – Present
Berlin, Germany

Klarna (Card and Banking Domain)

- Led the architectural design and implementation of a high-performance risk and fraud banking decision engine, handling tens of thousands of requests per second with an SLA/SLO adherence under 300/100 ms.
- Designed and implemented an ETL data pipeline for banking deposits data, supporting regulatory reporting with 45M+ records spanning over the past 12 years.
- Directed the centralization of a company-wide consumer-banking data-platform-hub offering, for financial and regulatory reporting, capital and liquidity reporting, AML/KYC, bookkeeping, and analytical purposes.
- Optimized Lakehouse architecture integration, transitioning from a queue-based to a file-based approach, reducing data processing time from 24-48 hours to 1-2 hours, improving overall efficiency, data quality, and reconciliation processes.

Senior Back-End Developer

11/2021 – 03/2022

Mobivate Limited

London, United Kingdom (Remote)

- Migrated legacy Python project from v2 to v3, transforming into a modern distributed system utilizing asynchronous architecture; resulting in a 50% reduction in server response time.
- Led initiatives to refine data quality measures, resulting in 99.9% data accuracy rates; implemented rigorous validation checks that enhanced the reliability of business intelligence outputs.
- Revamped back-end systems and APIs, adding monitoring, observability, introducing real-time performance tracking, reducing system downtime by 15% and increasing operational reliability.

Back-End Developer

09/2020 – 11/2021

StarLabs

Pristina, Kosovo

- Migrated a Django monolithic application into asynchronous FastAPI microservices, resulting in a 20% improvement in API response time.
- Achieved 98% test coverage across seven different microservices by implementing automated testing frameworks and integration tests.
- Led system integration of diverse data sources and technologies used in the design, construction, testing, deployment, and operations of BI solutions.
- Mentored and coached a team of six interns over a 3-months period, delivering a Django web application.

Software Engineer

11/2017 – 09/2020

Blackstone

Pristina, Kosovo

- Led the planning, design, and implementation of an in-house robotic framework built with NAOqi & QiSDK featuring a language-agnostic (Python, Java, and Kotlin), modular, asynchronous, and event-driven architecture.
- Integrated Google's Speech-To-Text solution on SoftBank robots, resulting an improvement up to 60% of accuracy.
- Developed and streamlined the hiring pipeline interview process, improving the assessment and hiring of senior technical talent.

TECHNICAL SKILLS

- Languages: Python, TypeScript, JavaScript, Java, Kotlin, Scala, Go, SQL, GraphQL
- Frameworks: AWS CDK, FastAPI, NestJS, Django, Flask, Express.js, Tailwind CSS, Bootstrap, NAOqi, QiSDK
- Cloud (AWS): Lambda, DynamoDB, S3, Glue, Athena, EventBridge, SNS, SQS, EC2, Fargate, ELB, EMR, ALB, WAF, IAM, API Gateway, Redshift, RDS, Aurora, CloudFormation, CloudWatch
- Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis, Cassandra
- Apache: Kafka, Airflow, Spark, Iceberg, Flink, Groovy, Maven
- Tools: Node.js, Docker, Kubernetes, Terraform, RabbitMQ, Datadog, Sentry, Grafana, Prometheus, Splunk, Jenkins, Nginx, Celery, Gradle, Bash, Git, GitHub, Linux, SQLAlchemy, PyTest, Jest

LANGUAGES

Albanian: Native • English: Bilingual • German: Elementary

EDUCATION

Bachelor of Science in Computer Science, University of Prishtina "Hasan Prishtina"