

**Senior Software Engineer** with **10+ years of experience** across **multinational corporations**. I specialize in architecting scalable cloud platforms, optimizing distributed systems, shipping high-performance enterprise applications, and **leading engineering teams**.

## Technologies and Languages

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- Languages: Java, Python, JavaScript, TypeScript, PHP.
- Frameworks: Spring Boot, Flask, Angular, YII, Electron, React, Django.
- Technologies: MySQL, Postgres, MongoDB, Git, Azure, AWS, Docker, Jenkins, Redis, RabbitMQ, ActiveMQ.
- Other: DSA, OOP, Event-Driven Programming, Parallel & Concurrent Programming, Microservices.

## Work Experience

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**Software Development Engineer II**      **Amazon — Dublin, Ireland**      **Feb 2025–May 2025**  
AWS Lambda Platform team

- **Implemented new throttling rules** for Lambda endpoints leveraging Amazon proprietary throttling mechanisms to regulate request rates based on operation type and account.
- Developed an **authorization strategy** for Lambda capacity provider operations, enabling the **authentication of requests** against user-supplied policies.
- Modified internal platform functionality to **automate the retrieval of the latest region statuses**, streamlining the process of **building Lambda services** in new AWS regions.
- Served as a **secondary on-call**, actively **troubleshooting and mitigating critical issues** to restore service and minimize user impact.

**Senior Software Developer**      **Iberdrola — Doha, Qatar**      **Feb 2022–Nov 2024**

- **Led a team of 10 engineers** to architect and deliver Iberdrola's Middle East renewable platform, **owning end-to-end solution architecture**, and translating business needs into **target-state designs on Azure**.
- Designed and led the **Smart EV Charging project**, aligning stakeholder requirements with technical execution; personally developed the **mathematical scheduling optimizer (Python/Gekko)** while leading full-stack development using **Flask and Angular**.
- Developed and owned DataHub, an enterprise integration platform **aggregating 4+ data sources** (including **SCADA systems**) into a **unified interface**; maximized throughput via **parallelism, chunked data fetching, and caching** to incur high-speed delivery via **Python and AKS**.
- **Automated wind farm energy assessment studies**, reducing processing time from **3 days to 10 minutes** by engineering a **distributed system** using Python multiprocessing and message queues.
- **Owned the cloud transformation** of legacy services to **Azure AKS**; established **CI/CD pipelines, Git-flow standards, and production-grade patterns** for **deployment, observability, and reliability**, improving deployment frequency and **code quality**.
- **Standardized backend architecture** by creating a **reusable Flask template adopted company-wide**, reducing **time-to-market** and enforcing best practices for security, logging, error handling, and observability.

**Application Analyst**      **Qatar University — Doha, Qatar**      **Feb 2020–Feb 2022**

- **Designed and implemented a payment service** for the library system that is used by **thousands of students** to calculate and pay the fees and fines using **Spring Boot, React, and MySQL**.
- Developed an **automated service** for library membership applications, **streamlining the process** for users.
- Maintained the library website using **PHP and Joomla**, ensuring alignment with evolving business requirements.
- **Supervised outsourced technical service providers**, guaranteeing that they met the library's needs and maintained systems effectively.

- Senior Software Engineer Consultant**                      **Rafeeq — Doha, Qatar**                      **Mar 2019–Jan 2020**
- Performed a **security and performance audit** of Rafeeq's code, identifying and **resolving threats and bottlenecks**.
  - **Designed and implemented MySQL read replica architecture**, enhancing the **availability** of driver tracking and menu services while enabling **horizontal scaling**.
  - Implemented **row-level locking** within scheduling services to resolve **concurrency issues**; eliminated double-bookings and increased system stability to handle **over 2,000 orders per day**.
  - Developed a **secure standalone payment service** integrating with payment gateways via **REST and SOAP web services**.
  - Designed and developed a new product service utilizing the **entity-attribute-value (EAV) model** to effectively manage product variants.

- Software Engineer Researcher**                      **Nokia — Dublin, Ireland**                      **Jan 2018–Jul 2018**
- Developed a **novel and practical solution for load balancing** in multi-connectivity networks, specifically for **MPTCP (Multipath Transmission Control Protocol)** in large data centers behind a firewall and NAT. The solution utilizes **proxies and VPNs** without modifying the MPTCP standard, user equipment kernel, or **requiring root access**.
  - Designed a solution for **seamless session migration** between multiple proxies within large data centers, ensuring **uninterrupted connections** between user equipment and proxies.

- Software Engineer**                      **Magaza — Doha, Qatar**                      **Mar 2017–Jan 2018**
- Designed and developed a **multi-vendor marketplace** using **PHP, Yii, Angular and MySQL**.
  - Built a **recommendation system** for the marketplace, recommending items to customers based on **customer profiling, collaborative filtering, and content-based filtering**; utilized **Java and Lenskit**.
  - **Integrated the marketplace with Onfleet** for driver management and task assignment, incorporating **driver availability and optimal delivery routes** using **Google Maps Distance API**.

- Software Engineer**                      **Le Merge Fashion — Doha, Qatar**                      **Jul 2014–Jan 2017**
- **Designed and developed an e-commerce system** using **Magento and PHP**. Integrated it with a payment gateway using **REST APIs**.
  - Developed a **point-of-sale (POS) system** and integrated it with Magento for **inventory management** using **PHP, Electron, and MySQL**.
  - Developed an **Android application** to facilitate **inventory counting** by allowing users to **scan barcodes** and match them with available quantities in the system.

## Education and Certifications

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- **B.Sc. Computer Science**, Qatar University, Qatar. **2010–2014**
- **Microsoft Certified: Azure Database Administrator Associate**
- **Microsoft Certified: Azure Data Fundamental**
- **Microsoft Certified: Azure Fundamentals**