Aral Sen

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WORK EXPERIENCE

Software Engineer   Aug 2023 – Present
EQUMAS LLC   *Philadelphia, PA, USA*

- Led full-stack development and continuous enhancement of the Quality Management System using ASP.NET Core, Entity Framework Core, and React, implementing a clean multi-layered architecture
- Designed and deployed new software modules while maintaining existing applications, ensuring seamless version updates and feature releases
- Authored comprehensive technical documentation, including software architecture specifications, test procedures, and system requirements, ensuring compliance and knowledge transfer
- Optimized database performance by refactoring Entity Framework Core queries and implementing efficient data access patterns, reducing response times by 40% and enhancing scalability
- Developed interactive business intelligence dashboards with reusable React components, enabling data-driven decision-making through insightful visualizations
- Managed and monitored Azure cloud infrastructure, ensuring efficient deployments, streamlined operations, and high system availability

Course Assistant   Aug 2022 – May 2023
State University of New York at Binghamton   *Binghamton, NY, USA*

- Supervised Programming with Objects and Data Structures labs, providing technical guidance and code reviews to enhance students' programming skills

Software Developer   Aug 2021 – Aug 2022
Innovatist   *Istanbul, Turkiye*

- Played a key role in developing the inaugural project for Innovatist Data Hub, processing time-series data from Industrial Internet of Things (IIoT) sources to enhance data integration and processing
- Assisted in engineering an OPC UA Event Subscriber using Eclipse Milo within a Java Spring Boot application
- Participated in containerization of the application using Docker Compose, including creating Dockerfiles and managing configurations for efficient log storage
- Supported the adoption of test-driven development by writing unit tests with JUnit and setting up GitHub Actions for automated testing, contributing to higher code quality and fewer defects after release

VOLUNTEER EXPERIENCE

Senior Project   Sep 2022 – May 2023
ValuAg LLC   *Binghamton, NY, USA*

- Led digital transformation of quality management processes, developing a full-stack web application using HTML, PHP, and WordPress hosted on AWS EC2
- Architected and implemented AWS cloud infrastructure including RDS MySQL database and comprehensive security controls (IAM, VPCs, Security Groups)
- Eliminated paper-based workflows, increasing data accessibility by 85% while ensuring regulatory compliance and protecting sensitive information

BEST Summer Course - Participant   Jun 2019
BEST Erlangen e.V   *Erlangen, Bavaria, Germany*

- Gained basic knowledge of AI fundamentals, machine learning, and cognitive neuroscience
- Visited Siemens, Audi, Esolutions, Schaeffler to see how they use AI in their industry
- Learned about innovation management and leadership in interdisciplinary projects

TECHNICAL SKILLS

- Java (Spring Boot/Native), C# , JavaScript, React, HTML, CSS, Python, Django, AWS, Docker, Kafka, PostgreSQL, MS SQL Server, REST APIs, Git, Maven, Entity Framework Core, LINQ, Azure, JPA/Hibernate, TypeScript, Next.js, SignalR, Hangfire

EDUCATION

Binghamton University   2023
B.S. in Computer Science   *Binghamton, NY, USA*