Aral Sen

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WORK EXPERIENCE

Software Engineer   Aug 2023 – Present
EQUMAS LLC   *Philadelphia, PA, USA*
- Spearheading full-stack development, feature enhancement, bug fixing, and continuous improvement of the EQUMAS Quality Management System (QMS) using ASP.NET Core, focusing on MVC structure, jQuery, Razor, ReactJS, and RESTful APIs
- Optimized Entity Framework Core queries, achieving a 45% reduction in query response time and significantly enhancing overall system performance, resulting in a more efficient and responsive application
- Developed reusable React components, improving code manageability and reusability by over 60%
- Leading the integration of Power BI for advanced data visualization and analysis, including writing SQL queries to support insightful business decision-making

Course Assistant   Aug 2022 – May 2023
State University of New York at Binghamton   *Binghamton, NY, USA*
- Supervised Programming with Objects and Data Structures labs for undergraduate students. Answered questions about course content, helped students debug code, provided feedback on assignments and projects

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 the digitization of internal quality metric forms, transitioning the organization to a secure, paperless system that increased data accessibility
- Developed a dynamic web application using HTML, PHP, and WordPress, hosted on AWS EC2, to streamline internal workflows and improve user experience
- Implemented a robust AWS RDS MySQL infrastructure to support the web application, ensuring high availability and performance for database operations
- Enhanced cloud security by configuring IAM roles, VPCs, and Security Groups, effectively protecting sensitive data and meeting compliance standards

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

EDUCATION

Binghamton University
B.S. in Computer Science (GPA: 3.66 / 4.00)   *Binghamton, NY, USA*

Istanbul Technical University
B.S. in Information Systems Engineering (GPA: 3.36 / 4.00)   *Istanbul, Turkiye*

TECHNICAL SKILLS

- Java (Spring Boot/Native), C# (ASP.NET Core), JavaScript, React, Python, Django, AWS, Docker, Kafka, PostgreSQL, MS SQL Server, REST APIs, Git, Maven, Entity Framework Core, LINQ, Azure