Serdar Senturk

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About me

I graduated with a degree in Computer Engineering in September 2022 and have been passionate about software and technology since childhood. With 3 years of work experience in backend development, I specialize in building scalable and reliable applications using Object-Oriented Design and SOLID principles. My time at P.I Works provided valuable experience in developing high-performance backend systems. I am a positive, hardworking, and open-minded individual, always eager to learn and improve myself.

Qualifications

- Programming Languages: Python, Java, C, SQL, C#, Javascript, TypeScript, React
- Java technologies: JDBC, JMS, JPA, Project Lombok
- Frameworks: .NET, Expo, Spring, FastAPI, Hibernate, Django, Flask, Spring MVC, Nextjs, AngularJs, Angular, .ASP.NET Core, NHibernate, EF Core,
- Web Services: SOAP, RESTful, Flask-CORS, Python WSGI, Websockets, SignalR
- Tools: Maven, Git, Docker, Kubernetes, RabbitMQ, Alembic, Firebase, Auth0, React-Query
- Databases: MySQL, MS Access, MongoDb, PostgreSQL, Redis, Oracle
- Software Methodologies: Microservices, Distributed Systems, Object-Oriented Design, Design Patterns, SOLID Principles, CI/CD, TDD, Serverless Architecture, Microfrontend Architecture, FSD Architecture, DDD
- Cloud Platforms: Heroku, Vercel

Work Experiences

Junior Software Developer, P.I Works, Turkey October 2022 - March 2025

Contributed actively to both backend and frontend development within an Agile team, focusing on AI-driven mobile network solutions.

- Primarily developed robust backend applications using C# and .NET Core/ASP.NET Core, focusing on high performance and reliability.
- Managed large-scale relational databases, including Oracle and PostgreSQL, utilizing Entity Framework Core (EF Core) and NHibernate for data persistence.
- Built and maintained user interfaces using Angular and AngularJS with TypeScript/JavaScript.
- Developed scalable and distributed web applications, including RESTful APIs and background services, implementing real-time features using SignalR.
- Applied Microservices and Microfrontend architectures to ensure system modularity and scalability.
- Managed the application lifecycle, including CI/CD and deployment, utilizing Docker and Kubernetes.
- Ensured high code quality through Unit testing (NUnit, Moq, Jasmine) and E2E testing (Cypress).

Internship Experiences

**Software Engineering Intern - P.I Works,
Turkey June 2022 – September 2022**

Gained practical experience in full-stack web application development and system migration.

- Involved in web application development using ASP.NET Core, Angular, NHibernate, Kubernetes, and the Ocelot API Gateway for microservice communication.
- Contributed to application development using ASP.NET Core MVC and Angular/AngularJS web UIs.
- Migrated a legacy WPF application (used for network and cell topology troubleshooting) to a .NET Framework web application, enabling multi-platform use for customers.

Projects

School Project 1, Movie Rating Systems Backend

A backend section of a website where movies on Django are rated.

Key Deliverables:
- Implementing applications using Python, Django
- Defining models and views using Django's MVT properties.
- Mapping database objects corresponding to MySQL database tables using models.
- Working on creating and publishing RESTful API's, which accept HTTP
- Performing automated functional testing for all web pages in the application

School Project 2, Java Distributed Systems

Movie Rating System implementation with Distributed Systems in Java.

Key Deliverables:
- Involved in various phases of Software Development Life Cycle (SDLC) using Agile Methodology
- Developed application using Java/J2EE platform
- Performed Reverse Engineering to map POJO classes to database
- Created DAO interface, abstract class and concrete classes to interact with persistence entities
- Involved in performing GET and POST requests
- Applied Object-Oriented Programming (OOP) principles by using Interface, Abstract, Overriding and Overloading
- Used RESTful Api design and implementation
- Used Postman to test the RESTful API for HTTP requests such as GET, POST, and PUT
- Used GIT for version control tools for merging branches
- Mapping database objects corresponding to MySQL database tables using models
- Working on creating and publishing RESTful API's, which accept HTTP
- Performing automated functional testing for all web pages in the application

School Project 3, Spring Distributed Systems

Movie Rating System implementation with Distributed Systems in Spring.

Key Deliverables:
- Key participant in all phases of software development life cycle with Analysis, Design, Development, Implementation, Integration, Testing, Debugging, Production, Maintenance and Support of Software Applications in client server environment, Object Oriented Technology and Web based applications
- Extensively worked with open source technologies Spring, Hibernate, Log4j, Slf4
- Worked on server side validation using various web forms through annotation based approach
- Experience with logging framework Log4j
- Experience working with web services using RESTful Api design and implementation
- Created RabbitMQ Handlers to handle sending/processing of messages
- Worked on Application server to create/configure queues, data sources, listeners and resources
- Speeding up Existing Applications with a Cache service using Redis Cache.
- Used Redis to cache and store data
- Containerized SpringBoot Java applications using Docker

Education

2018-2022   Trakya University, Turkey
             BSc in Computer Engineering

Language Skills

Turkish: Native language
English: Fluent