Berat Iyilik

Senior Full-Stack Developer

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Summary

Outcome-focused Senior Full-Stack Developer with over a decade of experience engineering scalable web applications and enterprise systems. A "Hybrid Architect" bridging the gap between robust .NET/C# enterprise domains and modern Node.js/React serverless ecosystems. Proven expertise in Domain-Driven Design (DDD), Event-Driven Architecture, and Cloud-Native development (AWS). Successfully delivered high-availability platforms serving 2M+ monthly visitors and mission-critical ERP solutions for government and corporate sectors. Dedicated to reducing MTTR and change-failure rates through disciplined CI/CD and automated testing.

Skills

Languages: C#, JavaScript, TypeScript, SQL, PL/SQL, Bash, C; **Microsoft**: .NET 9, .NET 8, .NET Core, ASP.NET Core Web API, ASP.NET Core MVC, MVC, Entity Framework Core, EF Core, LINQ, SignalR, WinForms, WCF; **Modern Web and Backend**: Node.js, Next.js, React, Redux, RabbitMQ (AMQP), Hangfire, WebSockets, Contentful (Headless CMS); **Cloud and DevOps**: AWS Lambda (Serverless), API Gateway, EventBridge, DynamoDB, S3, SQS, SNS, CloudWatch, Docker, CircleCI, Git/GitHub; **Data and Storage**: PostgreSQL, PL/pgSQL, Microsoft SQL Server, T-SQL, Oracle, PL/SQL, MongoDB, Redis. **Embedded/IoT**: C, ESP32, FreeRTOS, ESP-IDF, I2C/SPI protocols.

Experience

Senior Full-Stack Developer (Contract) | Healthily (formerly Your.MD) | London, UK | Jun 2021 - Dec 2024

- Architected a "Git-as-a-Source-of-Truth" clinical data platform using Node.js and AWS Lambda, treating GitHub as the storage layer to ensure strict versioning and auditability for complex medical taxonomies.
- Engineered an event-driven synchronization pipeline using AWS EventBridge to propagate complex entity updates across the distributed system whenever clinical data was merged by medical staff.
- Optimized the high-traffic consumer health portal serving 2M+ monthly users by migrating to Next.js Server-Side Rendering (SSR) and implementing aggressive caching strategies to reduce time-to-interactive.
- Integrated Contentful Headless CMS with the Next.js frontend, decoupling content releases from engineering cycles and enabling rapid publishing for the medical editorial team.
- Developed a robust, type-safe React component library using TypeScript, React Context, and Formik, standardizing UI patterns and significantly reducing frontend regression rates.
- Implemented rigorous CI/CD workflows using CircleCI and Bash scripts, enforcing 100% unit test coverage on critical paths via Jest before production deployment.
- Designed a serverless API architecture that leveraged AWS API Gateway to handle massive spikes in traffic while minimizing infrastructure costs through on-demand scaling.
- Spearheaded the performance engineering of the public site, achieving high Core Web Vitals scores which directly contributed to improved SEO rankings and user retention.
- Facilitated the safe curation of AI symptom checker data by non-technical staff through a custom-built admin interface that abstracted complex Git operations into simple UI actions.
- Hardened production security and stability by conducting deep root-cause analysis (RCA) on incidents and instituting mandatory code review gates for all team members.
- Orchestrated the migration of legacy services to a modern serverless stack, reducing operational overhead and improving system scalability during peak usage periods.

Senior Full-Stack Developer (Contract) | iRadar Data | Remote (Ottawa, Canada) | Jan 2021 - Jun 2021

- Delivered a greenfield immigration support MVP within a strict 6-month deadline, utilizing a Serverless framework (AWS Lambda) and MongoDB to maximize development velocity.
- Architected a cost-effective real-time messaging system using AWS API Gateway WebSockets, enabling instant communication between newcomers and advisors without managing persistent servers.

- Built a highly responsive Single Page Application (SPA) using React and TypeScript, ensuring a seamless user experience for document uploads and service discovery.

Senior Software Consultant | Bilge Adam Teknoloji | Istanbul, Turkey | Mar 2018 - Sep 2020

- Took end-to-end ownership of a distressed .NET Core event management platform for client KoçSistem (Arter), driving the codebase from an unfinished state to a stable production launch.
- Engineered a fault-tolerant billing microservice using C# and Entity Framework Core, implementing distributed transaction patterns to reconcile data between the application, Salesforce, and Logo Accounting.
- Designed and implemented a centralized Identity and Access Management (IAM) system for Mercedes-Benz Turkey ("KEYBOARD") using ASP.NET Web API and LDAP integration.
- Created a dynamic flow-based authorization engine that automated complex user provisioning workflows for thousands of dealership employees, significantly reducing manual IT overhead.
- Modernized the internal Talent Management System (TAS) by re-architecting the backend with ASP.NET Core and decoupling heavy processes using RabbitMQ for event-based communication.
- Implemented high-performance caching strategies using Redis to optimize search operations and session management within the recruitment portal, reducing database load during peak traffic.
- Developed real-time collaboration features for the HR platform, utilizing SignalR for document annotation and WebRTC for conducting secure video interviews directly in the browser.
- Orchestrated reliable background processing for financial reconciliation and email notifications using Hangfire, ensuring data consistency across disparate enterprise systems.
- Standardized API documentation and contract testing using Swagger, improving collaboration between frontend and backend teams and accelerating third-party integrations.
- Led code refactoring initiatives to align legacy modules with Domain-Driven Design (DDD) principles, resulting in a more maintainable and testable C# codebase.
- Mentored junior developers on .NET best practices and design patterns, fostering a culture of technical excellence and code quality within the consulting team.

Software Developer | Bisar Bilgi Teknolojileri | Istanbul, Turkey | Apr 2014 - Jan 2018

- Architected a reusable "Generic API" kernel using C# Reflection and Generics, automatically generating RESTful CRUD endpoints for domain entities and reducing backend boilerplate code by approximately 30%.
- Developed mission-critical Procurement and Asset Management ERP systems for major municipalities (Eyüpsultan, Uskudar), ensuring compliance with strict government auditing standards.
- Engineered high-performance database routines using PL/SQL (Oracle) and PL/pgSQL (PostgreSQL), utilizing cursors and stored procedures to handle complex financial reporting queries.
- Implemented a Domain-Driven Design (DDD) architecture with the Repository Pattern, ensuring clean separation of concerns and facilitating easier unit testing of business logic.
- Built a 3D city planning module (IMOS) by integrating ASP.NET MVC applications with ESRI GIS infrastructure, enabling spatial data visualization for excavation permits.
- Designed an event-driven file management system using RabbitMQ and a custom MinIO wrapper to handle asynchronous large file uploads securely and reliably.
- Migrated legacy municipal data to modern relational schemas, writing complex T-SQL scripts to ensure data integrity and continuity for thousands of asset records.

Education

Fatih University, Istanbul, Turkey (incorporated into Istanbul University in 2016)

Bachelor of Science (B.Sc.) in Computer Engineering | Faculty of Engineering | 2007 - 2014