Burak Kalafat - CV

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# BURAK KALAFAT

## Expert Software Engineer

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## Career Profile

**Expert Software Engineer** with 12+ years of experience specializing in large-scale legacy modernization, clean architecture, and high-performance backend systems within the financial sector. Proven technical leader adept at mentoring teams, conducting code reviews, and driving architectural decisions.

**GitHub Copilot Enterprise champion** with specialized expertise in AI-assisted development, delivering organization-wide training and achieving **6-8× acceleration** on a **60,000-line COBOL-to-microservices migration** within 3 months. Expert in Spec-Driven Development (SDD) and prompt engineering for enterprise-scale modernization.

Demonstrated impact through **performance optimization** (5-6× concurrent user capacity increase), **technical leadership** (code review ownership, team mentorship), and **architectural excellence** (Clean Architecture, design patterns, asynchronous programming).

## Work Experience

### Expert .NET Developer | Innovance (Remote)

**May 2024 - Present** | Istanbul

Lead technical modernization initiatives across major financial institutions, serving as technical advisor and GitHub Copilot champion:

**Akbank - Merchant Payment System Modernization**: - Modernized **60,000 lines** of legacy COBOL mainframe code to modern C# and Java microservices in **3 months**, achieving **6-8× acceleration** through AI-assisted development - Provided technical leadership through architectural guidance, coding standards establishment, and team mentorship on Clean Architecture principles - Delivered **3 company-wide presentations** on GitHub Copilot Enterprise adoption to management, establishing AI-assisted development best practices organization-wide - Implemented Spec-Driven Development (SDD) methodology using GitHub Copilot Ask/Edit modes, eliminating hallucinations and ensuring zero scope drift - Applied Repository, Unit of Work, Facade, and Strategy design patterns to ensure maintainable, testable codebase

**Turkiye Finans - Internet and Mobile Banking Backend**: - Developed robust banking backend systems using MVC, WCF, and MSSQL with comprehensive unit testing coverage

*Technologies: C#, .NET Core, Java, MVC, WCF, MSSQL, GitHub Copilot Enterprise, Prompt Engineering, Design Patterns, GitHub Actions, Azure DevOps*

### Senior .NET Developer | InsightSoftware (Remote)

**September 2022 - April 2024** | North Carolina

* Contributed to architecture, design, and implementation of backend-focused features using C#
* Collaborated within an international, remote-first environment
* Delivered scalable, maintainable solutions

*Technologies: C#, .NET Core, Backend Architecture*

### Senior .NET Developer | OBSS

**September 2017 - September 2022** | Istanbul

Led technical modernization and architecture initiatives across major Turkish banks with code review responsibilities and team mentorship:

**Halkbank - Mobile Banking Backend Transformation**: - Architected and led migration from legacy .NET Framework to Clean Architecture using .NET Core microservices - Increased concurrent user capacity **5-6× per server** through asynchronous programming patterns and thread optimization strategies - Developed scalable REST APIs with EF Core and MSSQL, deployed via Azure DevOps CI/CD pipelines - Implemented Repository and Unit of Work patterns for maintainable data access layer

**Turkiye Finans - Technical Leadership and Code Review**: - Owned code review process for development team, ensuring code quality, best practices, and architectural compliance - Mentored development team through regular code reviews and architectural guidance sessions - Developed enterprise-level corporate customer solutions using WinForms and WCF services - Established coding standards and review guidelines, improving code quality and reducing bug rates

**Akbank - Payment System Full-Stack Development**: - Led Payment System campaign as Full-Stack Developer using TypeScript, Knockout.js, C#, and Java Spring - Integrated frontend and backend systems with Oracle 12c database, ensuring transactional consistency

*Technologies: .NET Core, REST APIs, EF Core, MSSQL, Clean Architecture, Asynchronous Programming, TypeScript, Knockout.js, Java Spring, Oracle 12c, Azure DevOps, Design Patterns*

### Java Developer | TUBITAK

**January 2017 - September 2017** | Kocaeli

* Utilized Java and APDU protocols to write high-level security EAC SAC data to smartcard passport chips
* Contributed to secure government identification systems

*Technologies: Java, APDU, Smartcard Technology*

### .NET Developer | VakıfBank

**August 2013 - February 2017** | Istanbul

* Transformed legacy systems to service-oriented architectures for CRM and Collections teams
* Implemented MVVM pattern with WPF and WCF services
* Developed database solutions using Oracle 11g and PL/SQL

*Technologies: .NET, MVVM, WPF, WCF, Oracle 11g, PL/SQL*

### Part-Time .NET Developer | VeriPark

**December 2012 - June 2013** | Izmir

* Developed custom widgets using ASP.NET for Turkcell SharePoint environment
* Contributed part-time while completing university studies

*Technologies: ASP.NET, SharePoint*

## Education

**BSc in Computer Engineering**  
Ege University | 2008 - 2013

## Certifications

* **Introduction to GitHub Copilot** - Microsoft Learn (2024)
* **Build Microservices with .NET and Amazon Web Services** - Udemy (2024)
* **React Nanodegree Program** - Udacity (2020)

## Skills & Proficiency

* **C# and .NET Core Microservices** - Expert
* **GitHub Copilot Enterprise and AI-Assisted Development** - Expert
* **Clean Architecture and Design Patterns** - Expert
* **REST APIs and Asynchronous Programming** - Expert
* **EF Core and Database Design (MSSQL, Oracle)** - Advanced
* **Azure DevOps and GitHub Actions CI/CD** - Advanced
* **Unit Testing and E2E Testing (Playwright)** - Advanced
* **TypeScript, JavaScript and Java Spring** - Advanced
* **Technical Leadership and Code Review** - Advanced

## Languages

* **Turkish** - Native
* **English** - Professional

## Interests

Chess, LLM & RAG-based Enterprise Solutions, AI-Powered Customer Service Systems, Travel & Exploring Cultures

*References available upon request*