



# Burak Kalafat

## Expert Software Engineer

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## Education

### BSc in Computer Engineering

Ege University

2008 - 2013

## Languages

- Turkish (Native)
- English (Professional)

## Interests

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

## Career Profile

**Expert Software Engineer** with 12+ years of experience specializing in large-scale legacy modernization, clean architecture, and high-performance backend systems in the financial sector. Proven technical leader who mentors teams, conducts code reviews, and drives architectural decisions.

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

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

## Experience

### Expert .NET Developer

May 2024 - Present  
Innovance, Istanbul (Remote)

Leading technical modernization initiatives across major financial institutions, serving as technical advisor and GitHub Copilot evangelist:

#### Akbank - Merchant Payment System Modernization:

- Modernized **60,000 lines** of legacy COBOL mainframe code to modern C# and Java microservices architecture in **3 months**, achieving **6-8× acceleration** through AI-assisted development
- Provided technical leadership by guiding architectural decisions, establishing coding standards, and mentoring team members on Clean Architecture principles
- Delivered **3 company-wide presentations** on GitHub Copilot Enterprise adoption to management teams, establishing best practices for AI-assisted development across the organization
- Implemented Spec-Driven Development (SDD) methodology using GitHub Copilot Ask/Edit modes, eliminating hallucinations and ensuring zero scope drift across end-to-end delivery cycles
- Applied Repository, Unit of Work, Facade, and Strategy design patterns to ensure maintainable and testable codebase

## **Turkiye Finans - Internet and Mobile Banking Backend:**

- Developed robust internet and mobile banking backend systems using MVC, WCF, and MSSQL
- Implemented comprehensive unit testing

Technologies: C#, .NET Core, Java, MVC, WCF, MSSQL, GitHub Copilot Enterprise, Prompt Engineering, Design Patterns (Repository, Unit of Work, Facade, Strategy), GitHub Actions, Azure DevOps

## **Senior .NET Developer**

September 2022 - April 2024  
InsightSoftware, North Carolina (Remote)

- Contributed to the architecture, design, and implementation of backend-heavy features using C#
- Worked in an international, remote-first environment
- Delivered scalable and maintainable solutions

Technologies: C#, .NET Core, Backend Architecture

## **Senior .NET Developer**

September 2017 - September 2022  
OBSS, 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** by implementing 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:**

- Solely responsible for code review process for one development team, ensuring code quality, best practices, and architectural compliance
- Mentored and supervised development team, conducting regular code reviews and architectural guidance sessions
- Developed enterprise-level corporate customer solutions using WinForms and WCF services
- Established coding standards and review guidelines that improved team code quality by 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 (Repository, Unit of Work)

## **Java Developer**

January 2017 - September 2017  
TUBITAK, Kocaeli

- Used Java and APDU to write high-level security EAC SAC data to smartcard's passport chip
- Worked on secure government identification systems

Technologies: Java, APDU, Smartcard Technology

## **.NET Developer**

August 2013 - February 2017  
VakıfBank, Istanbul

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

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

## **Part-Time .NET Developer**

December 2012 - June 2013  
VeriPark, Izmir

- Developed add-on widgets using ASP.NET for Turkcell SharePoint environment
- Worked part-time while completing university studies

Technologies: ASP.NET, SharePoint

## Certifications

### Introduction to GitHub Copilot

2024  
Microsoft Learn  
[Microsoft Learn](#)

Completed official Microsoft training on GitHub Copilot, mastering AI-assisted development workflows, prompt engineering techniques, and best practices for enterprise-scale AI pair programming adoption.

### Build Microservices with .NET and Amazon Web Services

2024  
Udemy

Completed advanced training in building scalable microservices using .NET and AWS cloud platform, covering distributed systems, containerization, and cloud deployment strategies.

### React Nanodegree Program

2020  
Udacity  
[Udacity](#)

Completed comprehensive React training program through Udacity, covering modern frontend development practices, state management, and component architecture.

## Skills and Proficiency

### C# and .NET Core Microservices

### GitHub Copilot Enterprise and AI-Assisted Development

### Clean Architecture and Design Patterns

### REST APIs and Asynchronous Programming

### EF Core and Database Design (MSSQL, Oracle)

### Azure DevOps and GitHub Actions CI/CD

### Unit Testing and E2E Testing (Playwright)

### TypeScript, JavaScript and Java Spring

### Technical Leadership and Code Review