

ABTIN JALAEI

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💻 abtin-jalaei.github.io

SOFTWARE ENGINEER | BACKEND & CLOUD DEVELOPER | .NET, AZURE & AWS SPECIALIST

Results-driven Software Engineer with 8+ years of experience designing and building scalable cloud applications, data pipelines, and secure backend systems. Expert in .NET 8, Azure, AWS, and AI integration. Proven track record in automating processes, optimizing performance, and delivering high-impact solutions using C#, Python, React, and Flutter. Passionate about innovation, system design, and applying AI/ML to real-world business challenges.

TECHNICAL SKILLS

Languages: C#, Python, Java, Swift, TypeScript, JavaScript, HTML, CSS

Frameworks: .NET 8, Blazor, React, Vue.js, Flutter, Telerik Blazor, Entity Framework, ASP.NET MVC

Cloud & DevOps: Azure (App Services, Blob Storage, AD B2B, Azure OpenAI), AWS (API Gateway, EMR, SQS, Cognito, SageMaker, Polly, Lex, Transcribe, Lambda), GitHub Actions, Jenkins, Docker, SonarQube

Databases: SQL Server, PostgreSQL, DynamoDB, MongoDB, Firebase, Azure Table Storage, S3, SQLite

Architecture: Microservices, Event-Driven Systems, Domain-Driven Design, MVVM, MVC

Security & Auth: OAuth 2.0, OpenID Connect, Azure AD, Active Directory, SSO

AI & ML: Azure OpenAI, AWS SageMaker, Mistral (fine-tuning, agent config), Prompt Engineering, RAG Pipelines, Token Metering

Tools: Jupyter Notebook, Swagger, Power Automate, New Relic, xUnit, Firebase CLI, Supabase

Certifications: AWS Certified Solutions Architect – Associate | Certified Secure Software Engineer | MIT Professional Education: Cybersecurity

PROFESSIONAL EXPERIENCE

Van Metre – Software Developer

Jun 2024 – Sep 2025

- Developed scalable .NET 8 Blazor and Azure-based solutions for internal purchase order and document management systems.
 - Built and deployed REST APIs for AI integration and token metering using Mistral and Azure OpenAI.
 - Integrated CI/CD pipelines via GitHub Actions, improving code quality with SonarQube static analysis.
 - Designed and delivered end-to-end cost approval workflows including .NET APIs, Blazor UI, and Excel export.
 - Implemented Power Automate workflows for document automation and approval processes.
 - Created voice-enabled AI assistants using AWS Lex, Polly, and Transcribe integrated into React frontends with Cognito authentication.
 - Developed Flutter-based mobile prototypes consuming Firebase Firestore for secure real-time data sync.
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Capital One – Software Engineer

Jul 2022 – Apr 2024

- Designed and deployed data pipelines using PySpark on AWS EMR, integrating Jupyter-based analytics workflows.
 - Automated GitHub repo scanning and vulnerability tracking using Python, Slack alerts, and Jira automation.
 - Built a unit test generator to increase code coverage and reduce manual test writing by 40%.
 - Integrated New Relic monitoring into backend and frontend components for real-time performance insights.
 - Collaborated with data science teams to improve ML workflow reliability and production readiness.
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Hyosung America – Software Engineer

Sep 2016 – Jul 2022

- Designed and developed .NET Core microservices hosted on AWS with Docker, handling high-volume ATM transactions.
- Built secure financial APIs in ASP.NET Core for transaction validation and data exchange (SOAP/XML → JSON).
- Developed SSRS reports for millions of transaction records with optimized SQL Server queries.
- Implemented Azure Functions for dynamic key management and enhanced security in mobile apps.

- Modernized legacy .NET Framework systems to .NET Core microservices, improving scalability and maintainability.
 - Built authentication solutions using Azure AD and Active Directory for SSO across enterprise applications.
 - Collaborated with frontend developers to deliver reusable APIs powering React and Vue.js dashboards hosted on AWS S3.
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PROJECTS

Friday (.NET + AI Automation Library)

- Developed a .NET 8 NuGet package integrating Mistral and OpenAI APIs for multi-step automation workflows.
- Enabled “bring-your-own-key” AI model access with Power BI and Excel integration.
- Developed a Next.js frontend with Supabase authentication (Google, Apple, and email providers) and token metering dashboards.
- Architected the platform for multi-tenant AI agent hosting, allowing users to deploy personalized agents with voice and image generation.

Fantasy Stories (.NET 8 + Azure + Mistral AI)

- Built an interactive story system supporting text + voice logs, AI-generated content, and pay-per-image model.
- Integrated Supabase authentication and token metering with Mistral API calls.

Mobile Food Vendor Management (Flutter + Firebase)

- Created a Flutter app for home-based food vendors to manage menus and track orders in real-time.
 - Used Firebase Authentication, Firestore, and Cloud Functions for backend logic and data sync.
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EDUCATION

Wright State University, Dayton, OH

Bachelor of Science in Computer Science | GPA: 3.78

Dean's List | Outstanding Student Award