

Abtin Jalaei

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• abtin-jalaei.github.io

EDUCATION

Wright State University, Dayton, Ohio
Bachelor of Science in Computer Science

Sep 2011 - May 2015
GPA: 3.78

PROFESSIONAL EXPERIENCE

Van Metre - Ashburn, Virginia

Jun 2024 - Sep 2025

Software Developer

- Delivered Azure-hosted .NET 8 Blazor solutions improving internal purchase order and document management efficiency by 30%.
- Developed and deployed REST APIs integrating Mistral and Azure OpenAI, enabling real-time AI-driven automation with React frontend.
- Built GitHub Actions CI/CD pipelines with SonarQube integration, cutting deployment time by 40% and improving code quality.
- Designed cost approval workflows combining .NET APIs, Blazor UI, and Excel exports used by 100+ employees.
- Automated document routing and approval via Power Automate, reducing manual processing by 60%.
- Created voice-enabled AI assistants with AWS Lex, Polly, and Transcribe, reducing customer response latency by 25%.
- Developed Flutter prototypes syncing real-time data via Firebase, accelerating mobile proof-of-concept delivery by 50%.

Capital One - McLean, Virginia

Jul 2022 - Apr 2024

Senior Associate Software Engineer

- Engineered PySpark pipelines on AWS EMR, cutting data processing time from hours to under 10 minutes.
- Automated repo security scanning using Python + Slack + Jira, improving vulnerability detection efficiency by 45%.
- Created a unit test generator increasing backend test coverage by 40%, reducing QA cycle time by 25%.
- Integrated New Relic for proactive performance monitoring, identifying and resolving bottlenecks 20% faster.
- Partnered with data science teams to productionize ML workflows, improving model deployment stability by 35%.

Hyosung America - Miamisburg, Ohio

Sep 2016 - Jul 2022

Software Engineer

- Designed and deployed .NET Core microservices on AWS handling high-volume ATM transactions (over 5M/month).
- Built secure RESTful APIs replacing legacy SOAP systems, cutting data exchange latency by 50%.
- Optimized SSRS reporting and SQL Server queries, reducing report generation time by 80% for multi-million record datasets.
- Implemented Azure Functions for key management, strengthening mobile security and reducing breach risk by 40%.
- Modernized .NET Framework systems to .NET Core, improving scalability and uptime to 99.9%.
- Integrated Azure AD and Active Directory for unified SSO across 10+ enterprise apps.
- Delivered reusable APIs for React and Vue.js dashboards hosted on AWS, reducing frontend-backend integration time by 35%.

PROJECTS

Fraiday (.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.

Fantasy Stories (React + Firebase + Mistral AI)

- Built an interactive story system supporting text, 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.

SKILLS

Functional: Agile, SDLC, JIRA, Git

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

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

Cloud & Azure (App Services, Blob Storage, AD B2B, OpenAI), AWS (API Gateway, EMR, SQS, Cognito, SageMaker, Polly, Lex,

DevOps: Lambda), GitHub Actions, Jenkins, Docker, SonarQube

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

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

Security: 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: Swagger, Jupyter Notebook, Power Automate, New Relic, xUnit, Supabase

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

ACHIEVEMENTS

- AWS Certified Solutions Architect
- Certified Secure Software Engineer
- Dean's List | Outstanding Student Award