

## ABTIN JALAEI

📞 (937) 750-7083 | ✉️ [abtin.jalaei@gmail.com](mailto:abtin.jalaei@gmail.com) | 🌐 [linkedin.com/in/abtin-jalaei-4aa00870](https://www.linkedin.com/in/abtin-jalaei-4aa00870) |  
💻 [abtin-jalaei.github.io](https://abtin-jalaei.github.io)

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

Results-driven Software Engineer with 8+ years of experience designing and scaling cloud-native applications, data pipelines, and secure backend systems. Proven record of improving performance, automating workflows, and deploying AI-driven solutions using .NET 8, Azure, AWS, Python, and React. Passionate about innovation, distributed systems, and integrating AI/ML into enterprise solutions.

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## TECHNICAL SKILLS

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

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

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

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## PROFESSIONAL EXPERIENCE

### Van Metre | Software Developer

*Jun 2024 – Sep 2025*

- 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.
- Built GitHub Actions CI/CD pipelines with SonarQube integration, cutting deployment time by **40%** and improving code quality metrics.
- 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%**.
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### Capital One | Software Engineer

*Jul 2022 – Apr 2024*

- 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%**.
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### Hyosung America | Software Engineer

*Sep 2016 – Jul 2022*

- 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%**.
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## PROJECTS

### Friday (.NET + AI Automation Library)

- Developed a .NET 8 NuGet library integrating Mistral and OpenAI APIs for multi-step automation and report generation.
- Enabled “bring-your-own-key” AI model access with Power BI and Excel integration, improving enterprise adoption.
- Built a Next.js + Supabase frontend with Google, Apple, and email auth, featuring real-time token metering dashboards.

- Architected a multi-tenant AI agent hosting platform supporting custom voice and image generation.

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

- Built an interactive story engine supporting text, voice playback, and AI-generated imagery.
- Integrated Supabase auth and token metering, enabling pay-per-generation functionality.

#### **Mobile Food Vendor Management (Flutter + Firebase)**

- Designed and developed a Flutter app for home-based vendors to manage menus and real-time orders.
- Leveraged Firebase Authentication, Firestore, and Cloud Functions for reliable multi-user synchronization.

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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