MINH DUY TRUONG

Software Engineer

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SUMMARY

Software Engineer specializing in Azure-based .NET applications and scalable API development. Builds backend services using C# and ASP.NET Core, with Blazor and React frontends. Designs RESTful APIs, implements CI/CD pipelines and containerized deployments, and integrates AI capabilities into cloud-hosted systems.

EDUCATION

Western Governors University — Salt Lake City, UT

- **Master of Science in Computer Science | AI and Machine Learning** — *Expected Oct 2026*
  Coursework: Applied Algorithms, Computer Architecture, Deep Learning, NLP, Advanced AI
- **Bachelor of Science in Data Analytics**
  Coursework: Big Data, MLOps, Data Structures and Algorithms, Advanced SQL & Database Management

TECHNICAL SKILLS

- **Languages:** C#, JavaScript, TypeScript, Python, SQL
- **Frameworks:** .NET, ASP.NET Core, Entity Framework, Blazor, Aspire, React, Node.js
- **Cloud & DevOps:** Azure, AWS, Docker, CI/CD, Git, GitHub Actions, ELK Stack
- **Databases:** SQL Server, Azure SQL, MySQL, PostgreSQL, MongoDB
- **Certifications:** Azure AZ-900 • Azure DP-900 • AWS Certified Cloud Practitioner

EXPERIENCE

Cloud Application Developer Intern — *Nov 2025 – Feb 2026*
Microsoft Software and Systems Academy (MSSA) — Virtual

- Engineered microservices-based ASP.NET Core application using Clean Architecture and SOLID principles, supporting 3× traffic spikes and improving code maintainability by 85%.
- Designed highly normalized SQL schemas and optimized queries through indexing, improving performance by 40% and reducing latency under load.
- Implemented automated CI/CD pipelines with GitHub Actions and Azure DevOps, reducing deployment cycle time by 50% and enabling containerized, repeatable releases with monitoring.

Budget Analyst — *Mar 2023 – Jul 2024*
U.S. Army — South Korea, Texas

- Managed and reconciled $2M+ in annual financial transactions within highly regulated DoD environments, maintaining 100% audit compliance and preventing operational disruptions.
- Developed Python-based predictive models and automated reporting pipelines, reducing data entry errors by 40% and accelerating reporting turnaround by 60%, enabling faster data-driven decisions.
- Designed real-time interactive Power BI dashboards, enabling managers to access continuously updated reports and insights.

Financial Management Technician — *Jul 2020 – Feb 2023*
U.S. Army — Camp Casey, South Korea

- Served as a primary financial point of contact for unit commanders and internal stakeholders, translating operational needs into accurate financial plans and forecasts that supported mission readiness.
- Collaborated cross-functionally with procurement, operations, and vendor teams to support financial services for hundreds of personnel, ensuring compliant and uninterrupted transactions.
- Resolved payroll discrepancies by analyzing payment data, identifying root causes, and implementing corrections, restoring pay accuracy and strengthening personnel trust.

PROJECTS

CoreBanking API (*C#, ASP.NET, Aspire, PostgreSQL, Docker, Nginx*) — *Jan 2026*

- Engineered microservices-based banking API with horizontal scalability, enabling multi-instance expansion behind a unified gateway and improving request throughput by 2×.
- Architected a highly available, fault-tolerant system with active multi-instance services and automated migrations, eliminating a single point of failure and achieving >99.9% uptime in failure simulations.
- Secured and deployed services using AuthN/AuthZ with RBAC, Docker, and an Nginx reverse proxy implementing centralized logging and observability for operational visibility.

BodyMetrics 360 (*C#, ASP.NET, EF Core, SQL Server, Azure, GitHub Actions, xUnit, Bootstrap 5*) — *Dec 2025*

- Designed a production-grade health metrics web application providing precise, real-time user tracking.
- Architected a modular Clean Architecture monolith with a scalable RESTful API backend, implementing layered services, repository patterns, and dependency injection, achieving 90% test coverage.