Shawn Zhou

☏Tel:+1(516)965-3598

✉Email: shawnzhou17@gmail.com

Skills

- Cloud: Azure (AKS, Service Bus, Key Vault, Blob Storage, API Management), AWS (EC2, S3, Lambda, SQS/SNS, RDS)
- Frontend: React, Redux (Toolkit, Saga), MobX, Recoil, Material-UI, Tailwind CSS, Webpack, Vite, Jest, Cypress
- Backend: C#, ASP.NET Core, GraphQL, OpenAPI, Microservices, CQRS, DDD, Clean Architecture
- Database: Azure SQL, AWS Aurora, AWS Dynamodb, Redis, Entity Framework Core, Dapper
- DevOps: Azure DevOps, Terraform, Docker, Kubernetes,CI/CD pipeline with yml
- AI/ML: Azure OpenAI, Azure Cognitive Services
- Monitoring: Application Insights, Azure Monitor
- Security: OAuth2, OpenID Connect

Work Experiences

Company: Amergis (Formerly: Maxim Healthcare Group)   Columbia. MD
Project: TimeClock
Job title: Software Development Engineer   March 2021 to Present
Description: Maxim Healthcare Group, headquartered in Columbia, MD, is a national healthcare services provider offering home healthcare, staffing, and workforce solutions. Working within a distributed system architecture managing 40+ microservices that handle end-to-end employee hiring processes.
Key Achievements:
- Architected event-driven microservices using Azure Service Bus, reducing system latency by 40%
- Implemented distributed caching with Redis, improving application response time by 60%
- Developed automated CI/CD pipelines reducing deployment time from hours to minutes
- Led migration of legacy systems to cloud-native architecture using Azure Kubernetes Service
Technical Leadership:
- **Distributed Systems Architecture**
  - Designed event-driven microservices architecture using Azure Service Bus
  - Implemented Circuit Breaker patterns and retry mechanisms for system resilience
  - Built API gateway using Azure API Management for centralized request routing
- **Cloud Infrastructure & DevOps**
  - Orchestrated containerized applications using Azure Kubernetes Service (AKS)
  - Managed secrets and certificates using Azure Key Vault
  - Implemented document management system using Azure Blob Storage
  - Created Infrastructure as Code using Terraform
  - Developed multi-stage CI/CD pipelines with automated testing and rollback
- **Modern Frontend Development**
  - Built scalable React applications using Redux Toolkit and React Query
  - Implemented micro-frontend architecture for large-scale applications
  - Developed real-time features using SignalR
  - Created responsive UI using Material-UI and Tailwind CSS
- **AI/ML Integration**
  - Integrated Azure OpenAI for automated document processing
  - Implemented intelligent candidate matching using Azure Cognitive Services
  - Enhanced search capabilities using AI-powered algorithms
- **Security & Compliance**
  - Implemented Zero Trust security model
  - Managed application secrets using Azure Key Vault
  - Ensured HIPAA compliance in data handling
  - Developed a comprehensive audit logging system

Company: Dsfederal   Rockville. MD
Project: ESGR O&M
Job title: Full Stack .Net Developer   Oct 2019 to Oct 2020
Description: Dsfederal is a government contractor that combines industry-leading technical expertise with a broad understanding of client's missions.
Key Achievements:
• Developed and maintained 3 web applications with 90% code coverage
• Reduced API response time by 40% through optimized database queries
• Implemented a secure authentication system protecting sensitive military data
• Created a reusable component library reducing development time by 30%
Technical Contributions:
   • **API Development**
     - Built RESTful APIs with comprehensive CRUD operations
     - Implemented CORS for cross-domain communication
     - Developed custom exception handling using Exception Filters
     - Created secure endpoints with JWT authentication
     - Documented APIs using Swagger/OpenAPI specification
   • **Database & ORM**
     - Implemented Code-First approach using Entity Framework Core
     - Designed efficient data models and relationships
     - Optimized LINQ queries for improved performance
     - Integrated LLBLGen Pro ORM for complex data operations
     - Created and maintained stored procedures
   • **Testing & Quality**
     - Wrote comprehensive unit tests
     - Performed API testing using Fiddler
     - Participated in code reviews
     - Maintained coding standards
   • **Project Management**
     - Participated in daily Scrum meetings
     - Used JIRA for task tracking
     - Collaborated with cross-functional teams
     - Followed Agile methodologies

Education

2017.9 -2019.5	Master of Science with a Major in Business Analytics
	Hofstra University, Hempstead NY
2013.9 -2017.6	Bachelor of Engineering with a Major in Transportation Engineering
	Changsha University of Science & Technology ,Changsha China