NICK VARTERIAN

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Senior Software Engineer

Senior Software Engineer with expertise in .NET ecosystem and cloud technologies. 8+ years of experience architecting and implementing scalable solutions across diverse industries. Proficient in full-stack development. Demonstrated success in startup and enterprise environments, driving significant improvements in system performance and business metrics.

SKILLS

Languages & Frameworks: C#, .NET, .NET Core, ASP.NET, MVC, Python, Django, FastAPI, Node.js, Express.js, JavaScript, TypeScript, Angular, Vue.js, HTML, CSS, Tailwind CSS, Bootstrap, Razor, Blazor, AJAX

Databases, Cloud & DevOps: SQL, T-SQL, MS SQL Server, PostgreSQL, NoSQL, MySQL, Vector (AI/ML), Redis, Azure (Active Directory, AI Services, App Service, Blob Storage, Container Instances, DevOps, Functions, Key Vault, Logic Apps, Monitor, Service Bus, SQL Database), AWS, RESTful APIs, Web API, Microservices, Git, CI/CD, Docker, IIS, Entity Framework, OAuth

Other Technical Skills: Agile, SCRUM, Software Development Life Cycle, Computer Science, Code Optimization, Design Patterns, Dependency Injection, Version Control, Debugging, JIRA, Unit Testing, Dynamics 365, LLM (Large Language Models)

WORK EXPERIENCE

XENDEE
San Diego, CA | 07/2023 - Present
SENIOR SOFTWARE ENGINEER

- Led development of "Operate," an advanced real-time energy management software. Used Angular 17 and Tailwind CSS to create a dynamic front end for managing distributed energy resources like solar PV, EV, generators, and battery storage.
- Engineered a robust Web API and business layer using .NET 8 and Entity Framework Core, implementing a clean architecture pattern for improved modularity, ensuring seamless front-end/back-end communication.
- Implemented key features using Angular, including Highcharts for time series visualization and bill forecasting, AG Grid for reports, and custom configurable models with Reactive Forms and NgRx.
- Optimized database architecture from a manual SQLite design to a scalable MS SQL Server database, automating site setup. Resulted in 40% improvement in data handling, 50% increase in system stability, and reduced deployment time.
- Integrated revamped SQL Server database with existing AI forecasting algorithm using Python, leveraging pandas for data manipulation and SQLAlchemy for ORM enhancing the system's predictive capabilities and accuracy.

Elite Automation
Santa Ana, CA | 07/2021 - 03/2023
CO-FOUNDER/CTO

- Co-founded Elite Automation, an Amazon FBA eCommerce venture. Led Agile development team of 3, architecting scalable software solutions. Drove rapid product development, resulting in $1M+ revenue within the first year.
- Developed microservice based product repricing tool using C#, .NET Core, Azure Functions, and Docker. Integrated Amazon Seller API and Azure Service Bus. Implemented rule-based pricing algorithms, increasing client profits by 15%.
- Created a containerized, microservice purchase order system using C#, .NET Core, Docker, and SendGrid for automated inventory management and forecasting. Reduced manual processes by 40%, and improved supplier response time by 25%.
- Designed a responsive client portal using Angular, Tailwind CSS, and .NET Core. Integrated Azure AD B2C for authentication, Azure SQL Server for data storage.
- Engineered product research tool using Angular and .NET Core. Integrated multiple 3rd party e-commerce APIs such as Keepa. Increased discovery of high-margin products by 30% and reduced inventory holding costs by 21%.

ResortShare
Irvine, CA | 12/2016 - 07/2021
FULL STACK .NET DEVELOPER

- Architected and launched ResortShare.com using .NET Core, Vue.js, and SQL Server. Implemented OAuth 2.0 and RESTful APIs. Deployed on Azure (App Service, CDN) for scalability.
- Led Resortigo.com launch, managing 2 junior devs using Agile. Implemented CI/CD, conducted code reviews, and managed Git workflow. Used Jira for task tracking, resulting in faster development cycles and fewer post-release bugs.
- Engineered a custom Web API using C# and .NET Core for seamless integration with booking providers HomeAway and AirBnb. Increased bookings by 22% with real-time availability and achieved a 0% booking conflict rate.
- Developed a full-stack property management solution, featuring an Angular-based admin panel with Bootstrap UI and a robust booking engine utilizing Angular frontend with .NET Core API backend, leveraging ADO.NET for efficient data access.
- Designed high-performance MS SQL Server database on Azure. Implemented T-SQL stored procedures, indexes, and query optimization for optimal performance and seamless API communication.

Go Where I Go
Newport Beach, CA | 07/2016 - 01/2017
FULL STACK .NET DEVELOPER

- Collaborated with a development team to build a full-stack social discovery web app, leveraging crowd-sourced curation for local exploration. Engaged in end-to-end implementation from responsive frontend to robust backend services.
- Engineered "Places" and "City" features using AngularJS, Bootstrap, and ASP.NET MVC 5. Integrated RESTful APIs with C# and Web API, optimizing AJAX calls for fast load times. Implemented responsive design for mobile users.
- Integrated Google Places and Yelp APIs for geolocation and ratings, enhancing the app with location-based data and user reviews. Deployed on AWS using Elastic Beanstalk for scalability and Route 53 for DNS management.
- Developed database back-end using MS SQL Server on AWS RDS, implementing optimized T-SQL procedures. Leveraged Agile methodologies and Trello for streamlined development, enhancing team collaboration and project efficiency.

CERTIFICATIONS

MICROSOFT CERTIFIED: AZURE DEVELOPER ASSOCIATE
10/2024 - Present
Microsoft

MICROSOFT CERTIFIED SOLUTIONS ASSOCIATE (MCSA) : WEB APPLICATIONS
02/2019 - Present
Microsoft

PROJECTS

GASASK
11/2016
USC SO-CAL CODE CAMP HACKATHON

Developed GasAsk, a web app optimizing commute decisions for Los Angeles residents. It calculates costs and duration across various transportation modes using wage, gas price, and vehicle efficiency data. Integrated Fuel Economy, Uber, and Google APIs for real-time comparisons based on traffic and ride-share prices. Built a responsive UI with jQuery, Bootstrap, and AJAX, ensuring smooth user experience and API interactions.

EDUCATION

Orange Coast College
Business/Commerce in General
Costa Mesa, CA