William Bratz

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SUMMARY

- 5+ years enterprise .NET development experience, .Net Core, .Net Framework, .Net Standard.
- 5+ years developing scalable, robust RESTful API's.
- 3+ years Javascript development using JQuery, React, TypeScript.
- 3+ years experience developing enterprise microservices.
- 2+ years React development.
- 8+ years experience developing in SQL.
- 3+ years experience developing cloud services in Azure, and AWS.

PROFESSIONAL EXPERIENCE

Carvana   **12/2020 - Present**
Software Engineer II
Phoenix, AZ (Remote)
Carvana LLC., Provides customers a unique car buying experience completely online and is the second largest used car retailer in the US.

Underwriting Service: *Microservice that handles customer purchase events. Receives more than 130,000 requests/hr.*
- Added additional endpoints and modules to extend functionality.
- Wrote unit tests to maintain code coverage.
- Converted service from .NET Framework 4.6.2 to .NET Core 3.1.
- Converted from Azure Service Fabric to Azure Kubernetes Service.
- Responsible for CICD using Azure DevOps.
- Handled deployments, testing, troubleshooting in all environments (dev, test, uat, production).
- Encrypted connection strings to sensitive services.
- Technologies used: .NET Core, nUnit, Swagger, Kubernetes, Azure, Serilog, Splunk, SQL Server, Git, Azure Service Bus, Docker.

Verification Workflow: *Microservice responsible for handling verification related tasks by listening to message queues. When a message is received the service then logs information, transforms data, and starts processes specific for the received message type.*
- Added additional modules and functionality including message queue listeners, and endpoints.
- Converted from Azure Service Fabric to Azure Kubernetes Service.
- Responsible for CICD using Azure DevOps.
- Maintained code coverage by writing unit tests.
- Handled deployments, testing, troubleshooting in all environments (dev, test, uat, production).
- Encrypted connection strings to sensitive services.
- Technologies used: .NET Core, xUnit, Swagger, Kubernetes, Azure, CosmosDB, Serilog, Splunk, Azure SQL, Git, Azure Service Bus, Docker.

Identity Verification Service: *Microservice responsible for identity verification. This application works primarily with 3rd party APIs to verify customer identity.*
- Converted from Azure Service Fabric to Azure Kubernetes.
- Added functionality for Identity Verification using Experian Identity verification API (3rd party).
- Added, and set up retrieval of sensitive 3rd party credentials using Azure Key Vault.
- Maintained unit test coverage by writing unit tests.
- Handled deployments, testing, troubleshooting in all environments (dev, test, uat, production).
- Responsible for CICD using Azure DevOps.
- Technologies used: .NET Core, xUnit, Swagger, Kubernetes, Azure, Serilog, Splunk, SQL Server, Git, Docker.

Sunny's Light   **8/2019 - Present**
Software Engineer
Hendersonville, TN
Nonprofit providing financial support to families who have lost a child through stillbirth.

SunnysLight.org: *Web application home page for the Sunny's Light non-profit. The web application provides information on the organization, ways to donate, and information to receive support.*
- Designed, developed, deployed, and maintained Web application.
- Utilized React to build a responsive modern web app utilizing components, hooks, modals, toast messages.
- Developed custom stripe payment integration providing a seamless and secure donation process.
- Developed 3rd party API to handle stripe payment processing, receipt generation, and user logging.
- Integrated Google Analytics to monitor performance, and user patterns to make informed future decisions, and gauge marketing value.
- Containerized in Docker.
- Managed Github repository, with stories and backlog.
- Handle 90-day certificate generation with Certbot for https.
- Handle setup deployment and monitoring of web app through Azure App Service.
- Technologies Used: React, Azure App Services, Github, Azure DevOps, C#, Docker, Azure SQL .NET Core, React-GA, React Parallax, React Bootstrap, Docker.

CoStar Group   **3/2016 - 12/2020**
Software Engineer
Hendersonville, TN
CoStar Group is the leading provider of analytics for the commercial real estate and multifamily industries, as well as benchmarking data for the global hospitality industry. Their leading brands include Apartments.com and Loopnet.com.

CoStar Suite: Costar's main product, providing analytics and benchmarking data in the form of maps, charts, graphs, and reports to over 200,000 professionals performing over 1 million searches per day.
- Part of a 3-person team collaborating with frontend teams to implement integration of STR's global, hospitality, analytics, and benchmarking data into CoStar Suite.
- Developed report generation platform using AWS Lambda and AWS Step Functions.
- Developed multiple modules for translation and currency conversion utilizing factory, strategy, and command design patterns.
- Integrated new benchmarking and analytic data into existing tables then exposed data through entity-based endpoints to serve front end needs.
- Technologies used: .NET Core, SQL Server, Microsoft TFS, AWS, DynamoDb.

Instant Insights: Provide hospitality analytic data to hotel managers who are responsible for more than a single hotel.
- Project Tech Lead.
- Designed and developed a microservice architecture using REST APIs in .net core to calculate and serve data based on user selections, as input by our front end React website.
- Broke apart monolithic services and combined multiple related services into a series of microservices that can be reused throughout the organization.
- Developed front end components including drop downs, modals, forms, menus, graphs, charts and tables with variable columns and rows.
- Technologies used: React, Javascript, Typescript, Redux, Chart JS, Swagger. Net Core, Git.

OTHER ACTIVITIES
- Developed STR central landing page populated with user specific apps using React, .NET Core.
- Developed various charts and components to be used across multiple applications using Chart JS and React.
- Hosted .Net Core REST API development Lunch and Learn.
- Hosted SQL Server Lunch and Learns on various topics.

TECHNICAL SKILLS
Platforms: Windows, Ubuntu, Mac OS.
Software: Visual Studio, VS Code, Azure.
Languages: C#, T-SQL, Javascript, Typescript, Python.
Technologies: .NET Core, .NET Framework, React, SQL Server.

EDUCATION

Volunteer State Community College   **12/2020 - Present**
A.A.S Computer Programming
- Spring 2020 Dean's List.

Asheville-Buncombe Technical Community College   **8/2006 - 5/2008**
Completed the college transfer program for Computer Science BS (No Degree).