

JOHN FITZPATRICK

Software Engineer



SUMMARY

Results-oriented software engineer with 3+ years of professional experience designing, developing and delivering successful software solutions. Career experience is focused on cloud-first solutions with work as a full stack developer and dev ops engineer. Across six different clients designed and developed four greenfield applications, including two cloud native applications, two REST APIs used by 100,000+ concurrent users, two single sign-on implementations, and two repository-to-production dev ops pipelines.

Looking for a growth oriented and challenging role in an expanding organization to utilize my strong technical, design, and development skills to contribute to the improvement and expansion of the organization and to enhance my personal skills.



SKILLS

Languages

- C# (.NET, .NET Core)
- JavaScript
- HTML / CSS
- TypeScript
- Bash
- PowerShell

Libraries and Frameworks

- ASP.NET MVC (Framework and Core)
- Entity Framework
- React
- Next.js
- Node.js
- jQuery
- Telerik UI

Additional Tools and Technologies

- Microsoft Azure
- API Management
 - App Services
 - Application Insights
 - B2C Tenant
 - DevOps
 - Key Vault
 - Logic Apps
 - Notification Hub
 - SQL Server
 - Virtual Machines

nginx

Data Storage

- SQL Server
- Azure SQL Server
- MongoDB
- S3 / Blob

Development and Collaboration Tools

- Microsoft Visual Studio
- VS Code
- SQL Server Management Studio
- Git / GitHub
- JIRA
- Nano

Amazon Web Services

- EC2 / LightSail
- Elastic Beanstalk
- Route 53
- S3

Digital Ocean

- Droplets
- Networking
- Volumes

Jenkins

Octopus Deploy



WORK EXPERIENCE

Software Engineer – Consultant

Fusion Alliance – Columbus, Ohio

May 2017 – June 2020

- Worked with six unique clients, while at Fusion Alliance, to design, develop and deliver greenfield business applications to increase user brand engagement, increase revenues and reduce operational costs.
- Developed application to ingest data from smart home monitoring devices, allowing customers to link multiple devices and interact with them through a single pane of glass.
- Moved two REST APIs from whiteboard concept to working product for two separate projects. The first allowed web and native applications, as well as IoT devices, to both share and consume data; designed to support 100,000+ simultaneous users and devices. The second enabled a web application to pull live data into a fantasy sports mobile application; built to support 50,000 active users.
- Developed a self-service portal for auto repair facilities to use when processing auto glass claims. The web application is currently used by over 7,000 facilities, helping to reduce claim processing time by over 50%, improve accuracy of submitted claims and decrease rate of incorrect parts being ordered.
- Designed and implemented continuous integration and deployment pipelines for two separate projects that deployed to dev, test and prod environments; these automated deployments greatly increased delivery velocity and improved developer, tester and user experiences.
- Directly worked with clients, stakeholders and colleagues in both physical and remote settings. Consistently deliver excellence across all areas.



PROJECTS

Smart Home Monitoring via Fusion Alliance

11 months

Roles

Software Engineer – *Backend services, Smart home monitoring solution*

Key Skills

Azure, ASP.NET, JavaScript, SQL Server

Responsibilities

- Implemented a continuous integration, delivery and development pipeline using Jenkins and Octopus Deploy. Manual deployments were made to be automatic taking under 8 minutes to perform. This reduced deployment errors by performing unit, integration and database migration tests before deploying the application. The pipeline deployed to three environments (dev, test and prod) with each environment hosting three applications.
- Designed and developed REST API that provided data to web, mobile and marketing applications.
- Created multiple internal service libraries designed to ingest data from third party APIs.
- Increased security by fully integrating Azure Key Vault into all stages of the project; this managed all sensitive keys and passwords, keeping sensitive information out of source control and off of local machines.
- Implemented single sign-on for mobile application, supporting three different identity providers, increasing conversion rate of user sign ups.
- Raised visibility of system health by leveraging Azure Application Insights and Security Audits. Alerts were sent to developers when the application experienced any failures or downtime.
- Developed service to enable push notifications for iOS and Android native applications.
- Worked directly with client and stake holders to gather requirements, engage in design discussions and write feature requirements.

Auto Racing Industry via Fusion Alliance		5 months
Role	Cloud Architect – <i>Cloud, frontend and API development</i>	
Key Skills	Azure, DevOps, ASP.NET, Vue.js, technical and business analysis	
Responsibilities	<ul style="list-style-type: none"> Served as the cloud architect to design and implement Azure based web application. Designed and developed REST API to be consumed by both web and mobile applications. The production environment is expected to support 50,000 concurrent users. Implemented single sign-on for mobile application, supporting four different identity providers. Created continuous integration, delivery and deployment pipelines for multiple environments (dev, test, prod) using Azure DevOps, dramatically increasing feature release velocity. Complete application was delivered more than two months ahead of schedule. Designed testing scenarios and performed load-testing and performance-testing to ensure the application could support 50,000 concurrent users. 	
Auto Glass Claims Management via Fusion Alliance		8 months
Role	Software Engineer – <i>Backend services, work order and invoicing management systems</i>	
Key Skills	ASP.NET MVC, JavaScript, Kendo UI	
Responsibilities	<ul style="list-style-type: none"> Designed and implemented a work order management system that allowed processing of new work orders, re-dispatching, and re-submission of rejected work orders. Designed and implemented an invoicing management system that matched replacement parts to the vehicle on the work order, greatly the number of secondary orders and returns. Assisted in developing REST API to integrate product across business service layers. After initial release, worked directly with client to improve application, resolve defects and implement customer requested features. 	
Healthcare Revenue Cycle Management Provider via Fusion Alliance		4 months
Role	Cloud Consultant – <i>Cloud platform architecture analysis and design</i>	
Key Skills	Azure, AWS, technical and business analysis	
Responsibilities	<ul style="list-style-type: none"> Consulted with client to move 40-year-old legacy software to the cloud. Worked with client enterprise architecture team to discover and document the key requirements for a new cloud-based application platform from a technical, business and application perspective. Evaluated cloud providers and potential third-party services, ultimately creating cost and SLA estimates for a range and combination of cloud providers. Created implementation roadmap to move from legacy hardware and software to a cloud native design. 	
Federal Credit Union via Fusion Alliance		2 months
Role	Software Engineer – <i>Advanced analytics</i>	
Key Skills	Machine Learning Studio, Azure, SQL Server, ASP.NET, Docker, JavaScript	
Responsibilities	<ul style="list-style-type: none"> Built out cloud environment to host the data, web services and docker containers to allow for continuous operation of financial forecasting. Organized and processed data from all sources to prepare data for analytical processing. Maintaining deep learning neural network architecture and assisting in optimizing machine learning model. 	



Education

Oregon State University

College of Engineering
 Corvallis, Oregon
 Bachelor of Science
 Computer Science and Engineering
 2014 – 2016

The Ohio State University

College of Arts & Sciences
 Columbus, Ohio
 Bachelor of Art
 Economics
 2007 – 2012