EXPERIENCE  
  
**Senior Principal Software Engineer at Dell Technologies | Austin, TX (remote)** August 2021 – Present (*dell.com)*

* Led a software engineering team for one year, focusing on project management, mentorship, and strategic direction. Spent the remainder of the tenure primarily on hands-on coding and development, notably in identity management and global supply chain solutions for Credits, Returns, and Exchanges.
* Contributed to front-end development using Angular 18, enhancing user interface components for better user experience and system integration.
* Implemented Kafka for inter-service communication, designing systems to produce and consume JSON payloads efficiently across enterprise services.
* Developed and maintained a growing list of over 100 end-to-end automated tests using Selenium and Moon's browser automation, crucial for gating all production deployments.
* Implemented Polly for advanced HTTP client management with retry policies and circuit breaking, centralizing resilience mechanisms across service calls.
* Designed stubbing middleware to control test data flow during automated testing, improving reliability and consistency in testing environments.
* Managed continuous deployment through GitLab for five key applications/services, enhancing deployment processes and reducing time-to-market.
* Employed Agile/Scrum methodologies including daily standups, iteration planning meetings, and retrospectives to maintain high team performance and adaptability.
* Tracked all project work and milestones using Jira, ensuring transparency and accountability throughout the development lifecycle.
* Practiced extensive paired programming via Microsoft Teams, fostering team collaboration and knowledge sharing.
* Initiated the implementation of Pactflow consumer driven contract testing to enhance integration testing strategies, aiming to improve the reliability of service agreements between microservices.
* Integrated Copilot and Codium into development environments (JetBrains Rider, Visual Studio .NET, and VS Code) to enhance coding efficiency and productivity.
* Advocated for and practiced Test Driven Development (TDD) to minimize code coupling and maximize testability, leading to more robust and maintainable code.
* Utilized FluentValidation to ensure the integrity of outgoing JSON payloads before dispatching to Kafka, ensuring data accuracy and consistency for downstream systems.
* Continuously created Markdown documentation, including Mermaid sequence diagrams, to enhance project transparency and facilitate effective knowledge transfer across teams.
* Monitored KPIs and tracked errors using Splunk, enhancing performance analysis and system reliability.
* Ensured code quality and security compliance using SonarQube and Checkmarx, maintaining high standards for testing coverage, code quality, and vulnerability scanning.

**Senior Software Engineer at Tech Valley Talent| Ballston Spa, NY (remote)** Sep 2020 – Aug 2021 (*techvtal.com)*

* Led development of new applications in C#, ASP.NET Core, Angular, and Azure for the New York Workers' Compensation Board as part of modernization efforts.
* Specialized in developing Microservices using MediatR with Azure Service Bus.
* Oversaw continuous threat modeling, evaluation, and security enhancements alongside integration with state client systems.
* Authored unit and integration tests to support CI/CD pipelines, ensuring high code quality and reliability.
* Mentored team members in best practices, participated in daily code reviews, agile ceremonies, and defect triaging.

**Senior Software Engineer at Nextech Systems | Tampa, FL (remote)** May 2020 – Sep 2020 (*nextech.com)*

* Support and enhance applications in C++, C#, ASP.Net, AngularJS, Angular 7, and SQL Server.
* Troubleshoot application integrations across Azure Cloud and on-premises installations.
* Created E2E tests for Azure build pipelines using Selenium; unit tests in Angular using Jasmine and Karma.
* Authored detailed implementation and configuration documentation.
* Engage in daily code reviews, QA testing, agile ceremonies, and defect triaging.

**Senior Software Engineer at RDK Truck Sales | Tampa, FL** Jul 2018 – May 2020 (also Jun 2006 – September 2009) (*rdk.com)*

* Architected and developed a CRM using .Net Core Web Api, Angular 7, Azure SQL, and Azure Devops.
* Integrated the CRM with Procede Software’s Excede API for seamless data synchronization.
* Implemented Auth0 for JWT Authentication and Authorization.
* Developed a Windows Service for 3rd party SQL actions and managed CI/CD workflows using Git Flow.
* Mentored junior developers, both locally and remotely.

**Senior Software Engineer at Ashley Furniture | Tampa, FL** Jan 2017 – Jul 2018 (*ashleyfurniture.com)*

* Led the development of a security model using OAuth and JWT within an internal financial application.
* Designed Angular components for managing user roles and purchase order processing.
* Enhanced support for the Ashley Payment Gateway system for credit card processing.
* Created CI/CD pipelines in Azure, maintaining high code coverage and adhering to SOLID principles.

**Senior Software Engineer at Mercury New Media | Tampa, FL** Sept 2016 – Dec 2016 (*mercurynewmedia.com)*

* Collaborated on Telerik Sitefinity MVC sites, developing custom widgets and integrations.
* Created Sitefinity widgets for client lead promotion and Wordpress data import.

**Senior Software Engineer at 352 | Tampa, FL** Apr 2016 – Aug 2016 (*352inc.com)*

* Developed GiveChing.com, integrating affiliate networks with NodeJS, ExpressJS, MongoDB, and React.
* Implemented JWT authentication and AWS Lambda functions for custom Slack App integration.

**Senior Software Engineer at AAPL | Tampa, FL** Feb 2014 – Apr 2016 (*physicianleaders.org)*

* Rebuilt corporate website using Sitefinity CMS, integrated with Microsoft CRM and SQL Server.
* Developed APIs, web and mobile applications, and a POS solution enhancing operational efficiency.

**Earlier Roles:**Senior Software Engineer at SOE Software | Sep 2009 – Feb 2014  
Senior Software Engineer at Geographic Solutions | Jan 2006 – Jun 2006

Full Stack Developer at PowerChord | Nov 2003 – Dec 2005

WinForms Developer at Sterling Star | Feb 2003 – Nov 2003

EDUCATION

**Associate of Science in Internet Information Systems**Tampa Technical Institute, Largo, FL

January 2001 – July 2002



PERSONAL PROJECTS

**Arduino and ESP32 Development** *(github.com/ryanoc)*

* Home Automation System: Engineered a home automation system utilizing Home Assistant running on a Synology NAS. Integrated various sensors that communicate via MQTT, providing real-time data visualization on a Home Assistant dashboard.
* BBQ Temperature Monitoring System: Developed a temperature monitoring system for BBQ applications using an ESP32 integrated various other components. Implemented wireless communication for remote monitoring through Home Assistant’s Zigbee integration and a web interface using web sockets. CAD Designed and 3D printed custom enclosures for the system.
* Additional Projects: Continuously develop microcontroller-based projects to enhance automation and data collection capabilities for practical applications.