

Stephen G Collins

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<https://nibblesnbits.github.io/>

## SENIOR SOFTWARE ARCHITECT

Innovative Senior Software Architect with 12+ years of professional experience in designing scalable, enterprise-level solutions. Adept at leading cross-functional teams to deliver user-centric products with cutting-edge technology. Proven track record in modernizing architectures, implementing robust CI/CD pipelines, and driving efficiency through automation. A pragmatic problem solver with a strong focus on accessibility and maintainability.

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### Technical Skills

30 years of programming, from early scripting languages to modern frameworks.

**Languages:** C#, JavaScript (Node.js, React, React Native), TypeScript, Bash

**Frameworks & Tools:** .NET, Express.js, GraphQL, Azure DevOps, Terraform, Docker

**Cloud & Infrastructure:** AWS (EC2, Lambda, RDS), Azure (Functions, Service Bus)

**Development Practices:** Agile, CI/CD, Infrastructure as Code, Accessibility Standards (WCAG 2.1)

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### Professional Experience

PricewaterhouseCoopers (PwC) – via Randstad Digital, Dec 2023 – Jul 2024

<https://www.pwc.com/us/en.html>

**LEAD DEVELOPER** – Responsible for architecture, design, and implementation of an in-house design system based roughly on **Fluent UI**.

- **Assisted in management of a team of 7**, consisting of two Senior Developers, one Junior Developer, two QA Engineers, and two BAs, heading up development planning and estimation in an **agile development** process.
- Implemented innovative strategies for component structure and design within a large-scale **monorepo**, worked by **8 separate design teams**.
- Enforced **consistent and efficient commit guidelines** and **code review processes**.
- Assisted in configuration and maintenance of a **fully automated CI/CD pipeline** with **Azure DevOps**.
- Worked with Senior Architects on **consistently updated proof of concept applications** utilizing new design system as it evolved.
- **Guided the professional development of team members** through regular feedback, training sessions, and performance reviews.
- **Coordinated closely with UX/UI designers, product managers, and other stakeholders** to ensure alignment with business goals and user needs.
- **Created comprehensive documentation** for the design system, including style guides, component usage guidelines, and best practices.
- Ensured all components met **WCAG 2.1 accessibility standards**, improving usability for users with disabilities.
- Led efforts to **modernize the codebase**, incorporating TypeScript, React Hooks, and other modern development practices.

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**Occam Edge Technologies – via Take2 Interactive**, Jun 2023 – Dec 2023

<https://www.occamedgetech.com/home/>

**PRINCIPAL ARCHITECT** – Responsible for architecture, design, and implementation of a greenfield React Native mobile application and AWS-based backend support system and for a startup medical device manufacturer.

Designed, architected, and built a highly available and cost-effective microservices-based, domain and event-driven system, utilizing a host of **Amazon Web Services** products, including **Cognito, EC2, ECR/ECS, MemoryDB (Redis), MSK (Kafka), SAM (Lambda), SNS, and RDS (Postgres DB)**.

- **Managed a team of 8**, consisting of three Mobile Developers, two Senior Developers, two QA Engineers, and a Technical Writer, heading up development planning and estimation in an **agile development** process.
- Implemented innovative strategies for **Infrastructure and Configuration as Code** using **Terraform**, enabling rapid iteration and ensuring code reliability at all stages of development.
- Enforced consistent and portable development and deployment with **Docker** containers and **Serverless** functions and infrastructure.
- Configured and managed a **fully automated CI/CD pipeline** with **GitHub Actions**.

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**Ostrich**, Oct 2020 – Jun 2023

<https://getostrich.com/>

**TECHNICAL LEAD** – Responsible for the entire design and development process of financial accountability social platform.

Designed, architected, and built an original micro-services(ish) financial accountability platform based primarily in React Native and Azure services, including integration with Firebase for a robust notification system. Utilized a range of technologies, including **Node.js, .NET 6, Express.js, React Native, Relay, GraphQL, C#, Azure Functions and Azure Service Bus, Azure App Services, Azure SQL, Azure DNS, and Application Insights**

- **Managed a team** consisting of a Lead Designer and Junior Developer, heading up development planning and estimation in an **agile development** environment.
- Implemented innovative strategies for **technology cost management** that effectively minimized expenses while maximizing performance and reliability of all systems.
- Configured and managed fully automated CI/CD pipeline on the **Azure DevOps** platform.
- Integrated a **multi-cloud design**, enhancing the scalability and reliability in every aspect of the platform, including use of **Redis Labs** and **Mongo Atlas**.

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**Guidewell/Florida Blue – via Mindlance**, Nov 2019 – Aug 2021

**SENIOR DEVELOPER** – Responsible for the development and maintenance of health plan management systems serving millions of customers across the country.

- Designed, developed, and maintained both front and back-end applications using **Node.js, .NET 4.7, and React**
- Developed proof-of-concept products using **React** with both **GraphQL** and **REST APIs**
- Consistently consulted with other team members on **innovative approaches to complex problems**.
- **Mentored junior developers**, sharing established best practices and career development advice.

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**ASG Results/National Auto Care – via Interactive Resources**, Mar 2019 – Oct 2019

**SENIOR DEVELOPER** – Responsible for the design, development, and maintenance of vehicle service contract issuance site used by over 100 credit unions across the country.

- Developed, and maintained both front and back-end applications using **C#, and ASP.NET MVC 5**
- Planned and began development of improved rating system using **C#, .NET Core, React and Azure**

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**Fidelity National Financial**, Mar 2018 – Mar 2019

**SENIOR DEVELOPER** – Responsible for the design, development, and maintenance of multiple enterprise-scale systems responsible for processing over \$4 billion per year in Title and Escrow policies and fees.

- Designed, developed, and maintained both front and back-end applications using **C#, jQuery, ASP.NET MVC** and **Web API** hosted partially in **Azure**
- Documented new and existing systems
- Managed remediation of application security analysis findings

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**Centeva, LLC**, Aug 2016 – Feb 2018

**SENIOR DEVELOPER** – Responsible for the design, development, and maintenance of an n-tier Government Acquisitions Management system for Veterans Affairs.

- Designed, developed, and maintained both front and back-end systems for **Government Acquisitions Management**
- Integrated existing systems with third-party services
- Produced custom **developer tooling** for back-end systems management

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**Glimpse Live, LLC**, Jan 2015 – Aug 2016

**FULL STACK WEB DEVELOPER** – Responsible for the design, development, and maintenance of an n-tier Optometry and Dentistry business analytics platform.

- Spearheaded the design and development of an **ETL system**, powering a modern client data extraction and analytics process
- Produced custom **developer tooling** for arbitrarily structured data analysis
- Gained skills in **Agile** development practices utilizing **Atlassian JIRA** software
- Utilized various Linux distributions within local **VMs** and **AWS EC2** instances
- Managed **Node.js** application deployment with **pm2** and **nginx**

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**RR Donnelley & Sons Company**, Dec 2012 – Jan 2015

**WEB APPLICATION DEVELOPER** – Responsible for the design, development, and maintenance of **over 50 individual client web sites**, both back-end and front-end for a range of large financial institutions including T. Rowe Price and Washington Mutual.

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**DeVry University Online - Game and Simulation Programming**

- Pursued Bachelors in Applied Science.
- **Maintained 3.6 GPA** over 2 semesters; placed on DeVry University Dean's List both terms.

**Community College of the Air Force - Aviation Maintenance Technology**

- **Completed 39 credit hours** towards associate's degree during time in service; continued education with DeVry University.
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