

DANIEL PARTON

SOFTWARE DEVELOPER



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<https://daniel-parton.github.io/portfolio>

I am a passionate full stack developer with expertise in creating complex web applications. I have over 10 years of experience in backend development using .NET and C#, and frontend development with React, JavaScript, HTML, and CSS. I've worked with AWS, Azure, and GCP to deliver enterprise applications for thousands of users. My knowledge of application architecture and design patterns, such as SOLID principles and Domain-Driven Design, enables me to build scalable and maintainable software solutions.

EMPLOYMENT HISTORY

Lead Developer

Komo Technologies komo.tech

Feb 2021 - Present

4 years 7* months

Komo is a gamified marketing SaaS that generates leads and engages audiences through digital experiences. I lead a team of five developers.

INFRASTRUCTURE STACK

Google Cloud Platform (GCP), PostgreSQL, Docker, Kubernetes
.Net Core, NextJs, React, Typescript,, CQRS (Mediatr) , SignalR

KEY ACHIEVEMENTS

- **Architected and modernized the platform.** Led multiple large-scale refactors including migration to Turborepo, reducing main app bundle size by 40%, introducing shared libraries/config, and replacing a legacy component library with Mantine for faster development and light/dark mode support.
- **Modernized API architecture.** Transitioned from N-tier to Onion + Mediator pattern, standardizing authorization pipelines, implementing the outbox pattern for reliable event persistence, and reducing unused code.
- **Scaled analytics and workflows.** Evolved analytics into an event store model with database projections and transient event subscribers; built a Zapier-like workflow system powered by these events, including a drag-and-drop front-end workflow builder and back-end processing engine leveraging the event store for reliable, real-time execution.
- **Accelerated delivery and reduced costs.** Implemented conditional GitHub Actions builds, database CI/CD testing workflows, and Next.js App Router with Turbopack for faster deployments.
- **Developed AI content generation system.** Developed a multi-agent orchestrated AI chatbot that generated interactive game/content experiences, built necessary data schemas, adapted to brand colors/data, and offered real-time insights and recommendations.
- **Launched the Data Feeds product.** Conceived and delivered the Data Feeds product, enabling multi-page, screen-size specific layouts with text, images, videos, and live data blocks such as Q&A feeds, leaderboards, and poll results. This innovation elevated live events and secured new business opportunities.
- **Optimized performance at scale.** Introduced distributed caching (Redis) and in-memory caching to drastically reduce API latency for high-traffic endpoints.
- **Enhanced observability and quality.** Rolled out OpenTelemetry tracing, refactored database migration rules, and created XUnit integration testing scaffolding to increase coverage and developer focus on business rules.
- **Led hiring and team growth.** Managed recruitment end-to-end, onboarded new developers, fostered autonomy, and aligned work with team members' interests.
- **Improved cross-team collaboration.** Worked with product, marketing, and CS to prioritize BAU feature requests, enabling faster delivery of small wins and better tracking of recurring big-ticket items.

Senior Full Stack Developer

BHP bhp.com

Oct 2020 - Feb 2021

5 months

I contributed to BHP's Dash project, which equips fitters with a device that includes installation instructions and sensors, transmitting data to a website accessible through the device's Wi-Fi.

INFRASTRUCTURE STACK

Azure, Azure Devops, Balena (IOT), Docker
.Net Core, MQTT, Influx DB, IOT, React, Typescript

KEY ACHIEVEMENTS

- **Optimized sensor data processing pipeline.** Enhanced .NET Core container performance for parsing high-volume raw sensor data into an Influx database, improving reliability and efficiency.
- **Enhanced real-time equipment dashboards.** Created user-friendly gauges and graph controls for a React SPA, improving live data visualization and user experience for field technicians.
- **Led knowledge sharing and standards adoption.** Mentored team members on .NET best practices and React fundamentals, promoting consistent coding standards and accelerating onboarding.
- **Streamlined deployment with CI/CD automation.** Automated Docker container deployment using Azure DevOps, improving delivery speed, reducing manual effort, and ensuring consistent releases.

Senior Full Stack Developer

Cash Converters cashconverters.com.au

Jul 2019 - Oct 2020

1 year 3 months

I Worked as a full-stack developer in the Personal Finance team, responsible for the loan application process and supporting services.

INFRASTRUCTURE STACK

Azure, Azure Devops, PostgreSQL
.Net Core, CQRS, Event Sourcing, React, Typescript, Cypress testing

KEY ACHIEVEMENTS

- **Built event-driven messaging infrastructure.** Designed and implemented a CQRS-based event-driven messaging infrastructure using Rebus, enabling reliable inter-service communication and improving scalability across the platform.
- **Refactored and stabilized core loan application platform.** Led a complete overhaul of the main loan web application, migrating from JavaScript to TypeScript, simplifying complex code, and writing comprehensive documentation. Transformed the application from a high-maintenance, error-prone system into a stable, maintainable platform.
- **Strengthened quality assurance and release confidence.** Achieved full test coverage for the loan application using Cypress, integrated into the CI/CD pipeline to ensure consistent quality and reduce production issues.
- **Mentored and upskilled junior developers.** Provided guidance on development best practices, fostering skill growth, ownership, and confidence within the team.

Senior Full Stack Developer

BHP bhp.com

Apr 2019 - Jul 2019

4 months

During my contract role, I led the rewriting of small applications from .Net/AngularJS to React/.NET Core, with a focus on mobilization and resource allocation for mine shutdowns.

INFRASTRUCTURE STACK

AWS, Bitbucket Pipelines, PostgreSQL
.Net Core, CQRS, React, Typescript,

KEY ACHIEVEMENTS

- **Pioneered TypeScript adoption in React projects.** Advocated for and demonstrated TypeScript integration in React applications through examples and technical discussions with principal engineers, leading to its adoption across projects for improved type safety and maintainability.
- **Improved CQRS authorization pattern.** Introduced a pattern within the CQRS Mediator to handle authorization via attributes, replacing API-layer checks. This made it easier to test, extend, and run additional validations within mediator actions.

Senior Full Stack Developer

Diversus diversus.com.au

Aug 2018 - Apr 2019

1 year

Diversus provides software solutions as a service to several organisations mostly in the C# .Net space. I work as a full stack developer creating solutions for the front and back end of bespoke web applications.

Full Stack Developer

Clickhome clickhome.com.au

Sep 2016 - Aug 2018

2 years

ClickHome provides custom built enterprise level project management software for home builders

Junior Software Developer

Denver Technology denver.com.au

Jun 2015 - Sep 2016

1 year 4 months

EDUCATION

Graduated Lockridge Senior High School

2008

REFEREES

References available on request