Nicholas Judge

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Goal Statement

Software engineer with almost a decade of experience architecting and building high-performant, scalable systems specializing in cloud architecture, microservices, custom tooling, and containerized applications

Education

Goucher College : *Bachelor of Arts in Computer Science*   *Sept 2014 – May 2018*

Technologies

Languages: Rust, C#, C++, C, Java, JavaScript/Typescript, SQL, HTML/CSS

Core Technologies: .NET, Microsoft SQL Server, Sqlite, Git, Linux, Kubernetes, Docker, React, Node, AWS

Experience

Senior Software Engineer *ShareASale/Awin*   *Baltimore, MD June 2022 – Present*

- Architected and deployed Rust service processing AWS SQS queues to sync 1k+ daily transactions between legacy Sale Processor and Awin migration endpoint
- Developed Rust API capturing 5k+ client-side checkout events from Shopify JavaScript, storing data in SQLite with S3 synchronization
- Contributed to legacy Shopify plugin modernization, upgrading React and KOA JavaScript frameworks to support latest Shopify CLI
- Created Rust CLI tool for bulk operations on Cloudflare KeyValue storage, supporting JavaScript edge worker functionality
- Designed comprehensive .NET NuGet package suite for framework modernization: structured logging with Serilog, AWS Secrets Manager integration, and MSSQL RDS database wrapper
- Engineered Rust testing framework automating API validation for migration services, replacing manual Postman workflows
- Led weekly backend modernization meetings, coordinating legacy system upgrade strategies and project roadmaps
- Migrated three backend services from .NET Framework 4.6.1 to .NET Core 8.0, ensuring seamless production transitions
- Developed fraud detection REST API with React frontend integration, tracking malicious activities and account details acrross several of our platform services
- Maintained business-critical Sale Processor handling 90k+ clicks, 10k+ captures, and 700+ transactions per peak hour, including comprehensive health monitoring
- Transformed logging infrastructure from log files stored on our windows servers to ingested JSON logging to DataDog and created log parsing pipelines and performance dashboards
- Collaborated on Java Migration APIs facilitating 20k+ client account transitions to Awin platform

Software Engineer *Internet Testing Systems*   *Baltimore, MD Aug 2019 – June 2022*

- Collaborated with Product Managers and QA teams to deliver .NET Core and Framework applications supporting 5000+ users across online testing platforms
- Implemented real-time test launching application using .NET MVC and SignalR, enabling administrators to deploy test configurations dynamically
- Automated IIS application deployment through .NET API integration with Azure pipelines
- Designed SQL Server maintenance jobs for automated cleanup of stale database records across multiple environments
- Created SQL best practices validation plugin as SSMS 2017/2018 extension
- Managed comprehensive Azure CI/CD pipelines for web applications and services
- Optimized data comparison tool performance, reducing processing time for 1M+ record datasets from 90 seconds to 34 seconds

IT Mobile Device Analyst *World Bank*   *Washington, DC August 2018 – August 2019*

- Managed enterprise mobility solutions using MobileIron and Microsoft Intune for Android and iOS device configuration and troubleshooting
- Resolved multi-severity Remedy and ServiceNow tickets covering mobile devices, RSA tokens, and telecommunications support
- Served as primary liaison between help desk, end users, and tier 3 support teams for mobile environment and remote access solutions

Projects and Presentations

Rust in Production   *github.com/sirjudge/ShareASaleRustProductionTalk* ☑
- Presentation given internally detailing the journey of building and deploying Rust code in production

Data Comparison Tool   *github.com/sirjudge/data-comparison-tool* ☑
- Rust based CLI tool to compare two mysql database tables in a local sqlite file and output the added, changed, and removed records to a CSV output file

TigerClaw   *github.com/sirjudge/TigerClaw* ☑
- Rust based testing suite built to extract a token from an internal oAuth endpoint and test against a set of Migration APIs with additional validation to ensure the API responses match the expected results

TigerClaw   *https://github.com/sirjudge/SimpleDungeon* ☑
- Typescript exploration of a simple online TTRPG client in conjuction with using Bun as a javascript package manager and build tool