RYAN WAHLER

Fort Lauderdale, FL

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EXPERIENCE

Hilton Software   Dec 2021 - Present
Software Engineer II   *Coral Springs, FL*

- Develop and maintain REST web services and tileservers for aeronautical navigation data and maps using ASP.NET Core, FastAPI, Entity Framework Core, Dapper and Swagger.
- Applied LINQ for transforming collections, shaping database queries with EF Core, and processing structured data.
- Leveraged C#'s async/await to build responsive, non-blocking services and manage concurrency in high-throughput applications.
- Build and maintain front end applications with Vue, .NET Razor, MVC, Blazor.
- Maintain and enhance AeroApp, a Department of Defense owned electronic flight bag application for Android, using Kotlin and Jetpack Compose.
- Maintain observability containers running Grafana and Prometheus to monitor critical metrics. I wrote custom logging metrics targeting resource-intensive API calls.
- Deployed Promtail and Grafana Loki for system log aggregation enhancing visibility into server and application performance.
- Extensive Docker experience containerizing web applications, optimizing layer caching, and configuring environments for development and production.
- Implement and maintain GitLab CI/CD pipelines for automating builds, tests, and deployments across environments into Amazon ECS.
- Manage Nginx containers for API gateway, SSL termination, reverse proxying, and authentication.
- Designed and implemented backend infrastructure for worker services and batch processing long running tasks, RabbitMQ for queuing large file processing requests with long-running status endpoints, and Redis for distributed caching and shared session management.
- Worked with CesiumJS, Android Tactical Assault Kit, and Unity for 2D and 3D mapping applications.
- Generated geospatial data tools, including MBTiles, GeoJSON, and 3D Tiles.
- Managed geospatial databases using SQLite, PostgreSQL, and PostGIS.
- Collaborate on an agile team with Jira for tracking tasks and acceptance criteria.

SKILLS

Domain Knowledge: Full-Stack Development, Micro-Services, Observability, Dashboards, Business Intelligence, Time Series Analysis
Languages: C#, Python, Typescript, Javascript, Kotlin, SQL, HTML/CSS
Backend: ASP.NET Core, Django, Express, Flask, FastAPI
Frontend: React, Vue, Razor, Blazor
Developer Tools : Docker, Gitlab CI, Git, Jira
Databases: Postgres, MySQL, Redis, SQLite, Prometheus
Servers: Nginx, RabbitMQ
DevOps Tools:AWS API Gateway, Grafana, Grafana Loki

EDUCATION

Florida Atlantic University   **Boca Raton, FL**
B.S. in Computer Science, Summa Cum Laude; GPA: 3.986
Minor in Statistics
Certificate in Data Science

PROJECTS

Financial Data Analysis and Algorithmic Trading | *Python, Pandas, FastAPI, SciPy, D3, Typescript, WebGL*
- Working with open source charting libraries and webgl in order to accelerate them for use in financial charting and trading applications.