Patrick Tarwater

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PROFESSIONAL SUMMARY

Software Engineer with expertise in cloud architecture, API development, and containerized infrastructure. Proven track record of optimizing systems performance and implementing scalable solutions using AWS and Azure.

EXPERIENCE

Software Engineer III | Zivaro   **Dec 2024 – Present**

- Engineered high-availability container orchestration solutions in Kubernetes, implemented dynamic resource allocation algorithms and health checks that eliminated service conflicts - reduced production downtime by 90%
- Designed and implemented infrastructure-as-code architecture using Terraform and Ansible, reduced system provision time by 85% and established automated configuration management consistency across environments

Software Engineer II | Zivaro   **Nov 2023 – Dec 2024**

- Architected C# scalable microservices ecosystem with Durable Task Framework and EF Core, implementing flexible data pipelines with dynamic schemas and custom validation rules
- Engineered data migration from Oracle to Azure Data Factory, implementing parallel processing that achieved 75% reduction in ETL processing times and 20% decrease in data error rates across statewide educational systems
- Optimized AWS infrastructure through comprehensive automation of EC2, Lambda, ECS, EKS resources, implementing GitOps workflows that reduced deployment cycles by 30% and improved system reliability

Software Engineer | PointsBet   **Nov 2021 - Nov 2023**

- Developed region-specific identity verification microservices using .NET and Azure Service Bus, implementing saga pattern to improve KYC pass rates by 10%.
- Designed and integrated multi-provider payment processing system with GraphQL and RESTful APIs, incorporating Trustly, Braintree, and Interchecks within custom wallet infrastructure
- Created comprehensive documentation and incident management protocols, reducing support tickets by 35%.

Software Support Engineer | Next Gear Solutions   **Sept 2020 – Nov 2021**

- Optimized LINQ queries for user claim lookup and performed root cause analysis through legacy code debugging and third-party integration troubleshooting, enabling 20% reduction in customer support resolution times.

SKILLS

<u>Programming Languages</u>: C#, Python, Go, JavaScript, TypeScript, SQL (MySQL, T-SQL, PostgreSQL)

<u>Technologies</u>: React.js, React Native, .NET, Node.js, Django, GraphQL, Redis, Kafka

<u>Cloud/DevOps</u>: AWS (EKS, Lambda, DynamoDB, Step Functions), Azure (AKS, Functions, Cosmos DB, Service Bus) Linux, Git, Docker, Kubernetes, Terraform, Ansible, GitHub Actions

EDUCATION

Bachelor of Science - Computer Science   **Jun 2018 – Dec 2020**

- Western Governors University

PROJECTS

Bike Sharing System Predictor Tool (Python, Flask, JavaScript, Heroku)

- Developed and deployed demand forecasting application using Python (Random Forest Regression with pandas, NumPy, scikit-learn), creating interactive Plotly/Seaborn visualizations