

Alihan Baysal

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EDUCATION

- **Oregon State University**
Bachelor of Science in Computer Science

Corvallis, OR

Sept. 2019 – Mar. 2024

EXPERIENCE

- **Blue Cross of Idaho (via In Time Tec)**
Full Stack Engineer
 - **Cloud-Native API Architecture at Scale:** Designed and deployed high-availability RESTful APIs on AWS (Lambda, API Gateway, RDS, S3, CloudWatch) with OAuth2.0 authentication and circuit breaker patterns, serving thousands of concurrent users across HIPAA-compliant patient data systems while maintaining 99.9% uptime through automated monitoring and alerting.
 - **Event-Driven Data Processing Pipeline:** Engineered asynchronous HL7 FHIR-compliant data transformation services using AWS Lambda and SQS for real-time healthcare data exchange across distributed systems, implementing comprehensive data validation, dead-letter queue retry mechanisms, and CloudWatch dashboards reducing incident response time by 40%.
 - **Large-Scale Data Migration & Operations:** Owned end-to-end ETL pipeline migrating 10M+ patient records from on-premises databases to AWS cloud using Glue and Database Migration Service, implementing Change Data Capture (CDC) for real-time synchronization with zero production downtime and automated data integrity validation.
- **OSU Center for Applied Systems and Software**
Software Developer
 - **Event-Driven Microservices Migration:** Led enterprise-scale decomposition of monolithic system into event-driven microservices architecture using .NET Core, designing asynchronous messaging patterns with ActiveMQ broker and API gateway orchestration, reducing deployment cycles by 60% and enabling independent horizontal scaling across 8+ services.
 - **Internal Tooling & Full-Stack Development:** Built internal web applications and admin tools for operations teams using Vue.js 3 with TypeScript, developed RESTful backend services with comprehensive test suites and CI/CD pipelines, delivering features on tight schedules while enforcing code quality through systematic code reviews and documentation.

PROJECTS

- **Social Networking Platform — github.com/alihanbaysal/twitter-clone:** Full-stack real-time social media application with C#/.NET 8/ASP.NET Core featuring OAuth authentication, follower graph modeling with many-to-many relationships, dynamic feed aggregation, and RESTful API design. Optimized complex queries with Entity Framework Core for timeline rendering at scale.
- **Automated API Integration Service — github.com/alihanbaysal/Daily-LeetCode-Scraper:** Python-based automated service integrating external REST APIs with Microsoft Teams webhooks for real-time notifications, deployed on Linux with cron scheduling for reliable daily execution. Demonstrates API integration, error handling, and operational automation patterns.
- **Real-Time Systems Engine — github.com/alihanbaysal/SDL3-Pong:** High-performance application built with C++ and SDL3 implementing real-time event loop architecture, collision detection algorithms, and frame-rate independent rendering. Demonstrates low-level systems programming, memory management, and performance optimization.

TECHNICAL SKILLS

- **Languages:** Python, C#, TypeScript, JavaScript, SQL, C++
- **Cloud & Infrastructure:** AWS (Lambda, API Gateway, S3, RDS, SQS, CloudWatch, Glue, DMS), Docker, CI/CD Pipelines
- **Backend & Architecture:** .NET Core 8, ASP.NET Core, Entity Framework Core, RESTful APIs, Event-Driven Architecture, Microservices, Message Queues (ActiveMQ/SQS), OAuth2.0, Vue.js 3, SQL Server, PostgreSQL

- **Certifications:** AWS Certified AI Practitioner, AWS Certified Cloud Practitioner, Unity Certified Game Programmer