Alihan Baysal

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EDUCATION

Oregon State University — Corvallis, OR
Bachelor of Science in Computer Science; GPA: 3.98 — *Sept. 2019 – Mar. 2024*

EXPERIENCE

Blue Cross of Idaho (via In Time Tec) — Los Angeles, CA
Full Stack Engineer — *Oct. 2024 - Present*

- **HIPAA-Compliant Healthcare APIs**: Architected RESTful APIs using .NET Core and Entity Framework Core with OAuth2.0 authentication for HIPAA-compliant patient data systems, designed complex database schemas optimizing multi-table queries for healthcare workflows on AWS (Lambda, RDS, S3).
- **FHIR Healthcare Interoperability**: Engineered HL7 FHIR-compliant data transformation services enabling seamless healthcare data exchange across external systems, designed robust API contracts with comprehensive data validation for critical patient information processing.
- **Enterprise Data Migration**: Oversaw end-to-end ETL pipeline migrating 10M+ patient records from on-premises databases to AWS RDS using AWS Glue and Database Migration Service (DMS), ensuring data integrity and maintaining real-time synchronization for production healthcare systems.

OSU Center for Applied Systems and Software — Corvallis, OR
Student Software Developer — *Feb. 2022 - July 2024*

- **Microservices Architecture Migration**: Led enterprise-scale migration from monolithic system to microservices architecture using .NET Core, designed event-driven communication patterns with ActiveMQ message broker, implemented API gateway for service orchestration achieving independent service deployment and horizontal scalability.
- **Full-Stack Development**: Built SPAs using Vue.js 3 Composition API with Vuex state management and TypeScript for type safety, developed RESTful APIs with .NET Core and Entity Framework enabling asynchronous inter-service communication patterns.

PROJECTS

- **Twitter Clone — github.com/alihanbays/twitter-clone**: Full-stack social media platform with C#/.NET 8/ASP.NET Core featuring OAuth authentication, many-to-many relationship modeling for follow system, and RESTful API architecture. Implemented complex SQL queries with Entity Framework Core and SQLite for dynamic timeline rendering.
- **Daily LeetCode Scraper — github.com/alihanbays/Daily-LeetCode-Scraper**: Automated C# .NET scraper integrating LeetCode API with Microsoft Teams webhooks, deployed on Raspberry Pi with cron scheduling. Built to facilitate team-wide daily coding practice and collaboration.
- **SDL3 Pong — github.com/alihanbays/SDL3-Pong**: Recreation of classic Pong using C++ and SDL3 (Simple DirectMedia Layer), implementing real-time game loop architecture, collision detection algorithms, and 2D rendering. Demonstrates low-level systems programming and graphics fundamentals.

TECHNICAL SKILLS

- **Languages**: C#, Python, TypeScript, JavaScript, SQL, C++

- **Cloud**: AWS (Lambda, RDS, S3)

- **Backend**: .NET Core 8, ASP.NET Core, Entity Framework Core, RESTful APIs, OAuth2.0, FHIR/HL7, ActiveMQ

- **Frontend & Data**: Vue.js 3, TypeScript, Razor Pages, SQL Server, PostgreSQL

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