

Alihan Baysal

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EDUCATION

- **Oregon State University** Corvallis, OR
Bachelor of Science in Computer Science 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