Arlo Kharod

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BACKEND / FULL-STACK SOFTWARE ENGINEER

Backend and full-stack software engineer with full-time experience at Adaptive Software (Jan 2025-Oct 2026) building .NET, React/TypeScript and SQL-backed healthcare and operations software.

TECHNICAL SKILLS

Backend: C#, ASP.NET Core / Web API, .NET 8/10, Entity Framework Core (EF Core), SQL Server, PostgreSQL, REST APIs, SignalR

Frontend / DevOps: React, TypeScript, JavaScript, HTML, CSS, CI/CD (GitHub Actions), Docker, xUnit, Git

Azure / other: Azure Service Bus, Azure Functions; Python/FastAPI, Java/Spring Boot, Go, SQLite

AWS coursework: API Gateway, Lambda, DynamoDB, IAM

PROFESSIONAL EXPERIENCE

Software Engineer | Adaptive Software LLC

Jan 2025 - Oct 2026 | Full-time, remote | Healthcare and operations software

- Built per-patient order-creation locking in .NET and React, with SignalR presence and server-side conflict checks returning HTTP 409 when another user held the lock; added release, reconnect and expiry handling. Shipped April 2026.
- Implemented tokenized-link signing and credential workflows with validation and rate limiting; reviewed endpoint authorization boundaries.
- Implemented components of a multi-tenant .NET inspection API and offline-first React Native/SQLite sync foundation, supporting tenant isolation and a transactional outbox.
- Contributed to .NET/TypeScript analytics instrumentation with event-property allowlists to limit sensitive data collection.
- Maintained SQL reporting and workflows for an operations/IVR platform used by approximately 500 people; helped make imports resumable and added diagnostics and regression tests.

Cybersecurity Contractor | The Common Market

Jun 2024 - Aug 2024 | Philadelphia, PA

Supported network-security planning and diagnostics, remediation coordination and internal documentation.

PROJECTS

TomeStack | Solo | .NET 10, React, SQLite
Built a Windows character builder with dependency-ordered rules, cycle detection and calculation traces. Windows installer from tagged releases, ADRs and source-cited calculation traces; xUnit/Vitest tests and smoke checks in CI.

FairTix | Team project | Java, Spring Boot, PostgreSQL, Redis
Implemented queue/fraud components and backend seat-hold and payment workflows. Ordered PostgreSQL row locks protect seat holds; Redis supports waiting rooms. Runs locally; not production-deployed.

Hacker Tracker | Team capstone | FastAPI, React, PostgreSQL, Go
Built version-aware CPE-to-CVE matching, confidence tiers, EPSS ingestion and a read-only Linux agent. I wrote the known-good matcher regression set that runs in CI with a 95% pass floor (fixture regression, not field accuracy).

AWS client-management API | University team project | API Gateway, Lambda, DynamoDB, IAM
Configured AWS resources and permissions, integrated API endpoints and tested the serverless client-preference workflow; teammates implemented individual handlers.

EDUCATION

B.S. Computer Science | University of Louisiana at Lafayette | May 2026
Minor in Mathematics