CONNOR MACLACHLAN

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Backend software engineer building multi-tenant enterprise systems in C#/.NET for commercial and government customers. Experienced in CI/CD with Jenkins, automated testing, and shipping faster release cycles. Relocating to the Seattle area, available January 2027.

PROFESSIONAL EXPERIENCE

Software Engineer **March 2025 - Present**
Space Dynamics Laboratory North Logan, UT

- Develop and maintain features for a multi-tenant C#/.NET communication brokerage system serving commercial and government customers.
- Raised frontend test coverage from 15% to 75% with Jest to meet Certificate to Field compliance requirements.
- Co-led a team of 4 engineers in building an automated C# test suite (NUnit), enabling a move from monthly to bi-weekly releases.

Software Engineer Intern **June 2023 - September 2023**
Tokyo Electron Hillsboro, OR

- Designed and built an event-driven backup system in C# and SQL for the fab's wafer inventory-tracking system, persisting each wafer's recorded data and current process state so it survived site outages and unplanned downtime.
- Validated recovery against simulated outages, enabling engineers to find any in-flight wafer afterward and resume it from its last recorded state, supporting the company's Business Continuity Plan.
- Deployed the system in-house and debugged and refactored legacy C# code in the tracking system to improve reliability and efficiency.
- Built and consumed REST APIs for internal data analysis applications.

SKILLS

Backend: C#, .NET / ASP.NET Core, REST APIs, SQL
Data: PostgreSQL, MongoDB
DevOps/Testing: Jenkins, CI/CD, Docker, Git, Jest, NUnit
Also: Python, C++, React, Node.js

TECHNICAL PROJECTS

***Undercut (in progress)*, ASP.NET Core, SQL Server, JWT, Testcontainers, GitHub Actions**

- Building a multi-tenant motorsport prediction league API with JWT auth, per-league scoring rules, and tenant-level data isolation verified by automated integration tests.

***Tutela*, MERN, Stripe, Docker**

- Built a full-stack clothing e-commerce site (React, Node/Express, MongoDB) with Stripe checkout, user authentication, and an admin panel for inventory management.
- Containerized with Docker for one-command self-hosting.

Deep Fake Voice Detection, Python, TensorFlow

- Trained a TensorFlow neural network on ~11,800 labeled audio samples to classify AI-generated vs. human speech from spectral and temporal features, reaching 95% accuracy on a held-out test set.

EDUCATION

University of Oregon, B.S. Computer Science, Minor in Mathematics, 2024