LUCAS DA CRUZ

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SUMMARY

Software Engineer with 4+ years of experience specializing in backend development, API design, and distributed systems. At Ecolab, built .NET distributed IoT systems, delivered enterprise web apps, and developed Python, Go, and .NET microservices and LLM-powered CLI tools to improve the engineering lifecycle and streamline operations

SKILLS

Python, Go, C#, Typescript, FastAPI, Multithreading, Concurrency, Distributed Systems, Azure, AWS, Object-Oriented Programming, Docker, Terraform, Ubuntu, Linux, Pytest, .NET, PostgreSQL, MySQL, Git, Data Structures, Java, Springboot, React

WORK EXPERIENCE

Ecolab   **Jan 2022 – Present**
Software Engineer   *Remote*
- Developed .NET distributed systems using service bus architectures to ingest data from thousands of IoT devices, enabling real-time monitoring and automated customer notifications of critical water quality levels
- Led full-stack delivery of an Executive Business Review (EBR) web application (.NET, Angular, Azure) used by 300+ global account managers, standardizing enterprise reporting and improving customer engagement
- Built Python, Go, and .NET CLI tools powered by LLMs as part of a Center of Excellence, automating testing, documentation, and software analytics to improve backlog readiness and accelerate development across engineering teams

Torchlight   **May 2021 – Present**
Automation Contractor   *Remote*
- Led the adoption and migration of legacy Selenium-based test suites to Playwright, enabling parallel execution, improving reliability, and significantly reducing runtime.
- Engineered automated data pipelines with Python and Selenium to generate 100+ dynamic Tableau utilization reports, cutting reporting time from 4 business days to under 3 hours
- Built multithreaded Python automation tools using concurrent I/O to audit hundreds of third-party links, scaling audits from hours to minutes and improving documentation accuracy

Constant Contact   **Aug 2021 – Jan 2022**
Associate Software Engineer   *Waltham, MA*
- Led the development of high-throughput billing invoice processing pipelines using Spring Batch and RESTful API integrations, reducing processing latency by 40% and improving system efficiency
- Partnered with principal engineers in refactoring critical backend billing workflows to adopt a RESTful API-first architecture, improving maintainability and decoupling services from legacy database dependencies
- Collaborated with Senior Engineers to develop backend services for a newly revamped Business Partner Console application, enhancing system functionality and supporting scalable integrations for enterprise users

EDUCATION

Western Governors University | *B.S. Computer Science* | Millcreek, Utah   **Aug 2024 – Sep 2025**
(*Graduated 2025*)
Massachusetts Bay Community College || *A.S. Computer Science* || Wesley, Mass.   **Sep 2023 – Aug 2024**
(*Transferred to WGU with a **4.0 GPA***)