

LUCAS DA CRUZ

SOFTWARE ENGINEER

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SKILLS

- Python, Java, C#, C++, Golang, Javascript, Typescript, Git, Docker, Azure, Helm, Bash, Powershell, Multithreading
- PostgreSQL, MySQL, Microservices, Backend, Frontend, DevOps, CICD, Terraform, Bicep, Automation, Linux
- Angular, React, Flask, FastAPI, Springboot, .NET, Tailwind CSS, Azure Pipelines, CircleCI, GitHub Actions

WORK EXPERIENCE

Ecolab | *Software Engineer* Jan 2022 - Present

- Developed and maintained CI/CD pipelines and cloud infrastructure using Terraform, Bicep, and Azure Pipelines, improving deployment reliability and reducing release times by 30%
- Developed event-driven .NET microservices to process real-time telemetry data from thousands of IoT devices in Azure environments
- Created internal CLI tools powered by LLMs to automate unit test generation and code documentation, reducing developer effort by 25% and improving code consistency
- Led full-stack delivery of an Executive Business Review web application (.NET, Angular, Azure) used by 300+ global account managers and driving consistency in enterprise-level reporting and customer engagement

Torchlight | *Automation Contractor* May 2021 - Present

- Built a multithreaded Python tool using concurrent I/O to audit hundreds of third-party links, improving accuracy of enterprise training and documentation resources
- Designed and maintained robust, scalable automated test suites for cross-platform applications using modern testing frameworks (e.g., Pytest, Selenium, Appium), accelerating QA cycles and reducing regression defects
- Automated the end-to-end generation of 100+ dynamic utilization reports using Python and Selenium — reducing reporting time from 4 business days to under 3 hours and eliminating bottlenecks in customer reporting workflows

Constant Contact | *Associate Software Engineer* Aug 2021 – Jan 2022

- Engineered high-throughput batch processing pipelines using Spring Batch and RESTful API integrations, reducing processing latency by 40%
- Refactored critical backend billing workflows to adopt a RESTful API-first architecture, improving maintainability and decoupling services from legacy database dependencies
- Executed zero-downtime deployments to staging and production via CI/CD pipelines and automated scripts, enabling smooth delivery of business-critical releases

EDUCATION

Western Governors University || *B.S. Computer Science* || Millcreek, Utah Aug 2024 – Nov 2025 (Expected)

Massachusetts Bay Community College || *A.S. Computer Science* || Wesley, Mass. Sep 2023 – Aug 2024

(Did not complete - transferred to WGU with a **4.0 GPA**)

Certificate: Linux Essentials Certificate (LPI) Issued Mar 2025