

Sebastián Torres Dominguez

📞 720-326-9805 | @ seb.torres3600@gmail.com | 🌐 <https://seb-torres3600.github.io>
in <https://www.linkedin.com/in/sebastiantorresd> | 📍 Seattle, WA

EDUCATION

University of Colorado at Boulder
B.S. in Computer Science

Boulder, CO
Aug 2019 – May 2023

SKILLS

Languages: C/C++, Python, Go, Swift, Bash

Technologies: Git, AWS, Docker, Unix

Skills: Multi-threading, Object-Oriented Programming, Software Design Patterns , Problem Solving

WORK EXPERIENCE

Amazon Web Services - Device Farm

Seattle, WA

System Development Engineer

Jun 2023 – Current, Full-time

- Engineering the world's largest elastic grid of physical mobile devices, and desktop browsers, working to scale to hundreds of thousands of instances and supporting billions of daily requests.
- Designing and deploying resilient IoT systems to manage an extensive fleet of mobile devices, integrating self-healing capabilities, automated fault detection and recovery, predictive maintenance, and end-to-end device lifecycle management.

University of Colorado at Boulder - OIT

Boulder, Colorado

Unix System Administrator

May 2021 – May 2023, Student Assistant

- Managed and upgraded core systems supporting daily operations for faculty, staff, and students, ensuring seamless access to university resources.
- Diagnosed and resolved complex issues related to servers, applications, and software, enhancing system reliability and user satisfaction.
- Rapidly addressed and resolved critical infrastructure issues, safeguarding the uninterrupted functionality of essential university services.

Amazon Web Services - Device Farm

Seattle, WA

System Development Engineer Intern

Jun 2022 – Aug 2022, Internship

- Developed a CI/CD pipeline to streamline deployments, enabling faster delivery of essential upgrades and code fixes, improving customer experience.
- Designed an automated deployment strategy for rapid code distribution across thousands of nodes, incorporating automated rollbacks and real-time status checks to ensure reliable and safe deployment with minimal manual intervention.

RELEVANT COURSEWORK

Concurrent Programming

This course introduced the theory and practice of multicore programming. The first part of the course presented foundations of concurrent programming: mutual exclusion, wait-free and lock-free synchronization, spin locks, monitors, memory consistency models. The second part presented a sequence of concurrent data structures and techniques used in their implementations (coarse-grained, fine-grained, optimistic and lock-free synchronization)

Machine Learning : Supervised Learning

In this course, we learned various supervised ML algorithms and prediction tasks applied to different data. We covered models such as linear and logistic regression, KNN, Decision trees and ensembling methods such as Random Forest and Boosting, and kernel methods such as SVM.

Network System Foundations

Throughout this course we delved into the fundamental layers of network communication. We started with a thorough discussion of the Link Layer and its crucial role, moving on to the intricacies of Internet Protocol (IP) and router data planes, and then the complexities of the transport layer, application layer, and network security.