

Griffith Baker

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EDUCATION

North Carolina State University, Raleigh, NC
Bachelor of Science in Computer Science

May 2024
GPA: 3.95/4.0, Dean's List all semesters

WORK EXPERIENCE

Cisco

Software Engineer

San Jose, CA
June 2024 - Present

- Led the design and implementation of a Python-based (pyATS) test automation framework that reduced CI/CD pipeline runtime by 49%. Engineered a ChatOps-driven system (FastAPI, Webex) for self-service build queuing, providing real-time status monitoring and automated failure notifications for an 11-person team.
- Enhanced Meraki Cloud Management by implementing the CLI/NETCONF framework for L3 routed port and Management VRF uplinks, and engineered a reliable TDL-based messaging system between subsystems with ACK-based retries and a circular buffer to ensure guaranteed, exactly-once delivery.
- Improved platform serviceability and debugging efficiency by creating a CLI-driven packet capture tool for encrypted traffic and an automated log collection system for the test framework, providing immediate access to comprehensive diagnostic data upon failure.

InStride

Software Engineer Intern

Winston-Salem, NC
May 2021 - May 2024

- Formulated and executed a scalable solution for extracting data points from a 2D image using Kubernetes HPA/Cluster autoscaler with custom metrics, machine learning models (PyTorch, HuggingFace), and computer vision libraries (OpenCV, NumPy), accessible through a REST API (Python, FastAPI, Docker).
- Attained an 80% reduction in deployment build times through streamlined strategies (GitHub Actions, Docker multi-staged/cached builds, Google Cloud Build), and established robust security architecture and data retention practices for Firebase-based backend.

Bandwidth

Software Engineer Intern

Raleigh, NC
May 2023 - July 2023

- Developed and deployed software to streamline attribute modifications for millions of phone numbers (Java, Spring Boot, DynamoDB), integrating optimistic locking mechanisms to enhance data integrity and concurrency control.
- Enabled fully automated AWS CDK and GitHub Actions deployments, reducing deployment times by ~65% and eliminating manually touching the production AWS environment.

SKILLS

Programming Languages: Python, Java, Go, JavaScript, SQL, Groovy, C

Frameworks and Libraries: FastAPI, Spring Boot, React, PyTorch, OpenCV, NumPy

Tools and Technologies: Docker, AWS, Google Cloud Platform, Kubernetes, Firebase, GitHub Actions

PROJECTS

Telegram Daily Notification Bot

May 2025

- Built a Go service to send daily scheduled Telegram messages.
- Containerized the service with Docker for simplified deployment.

LEADERSHIP EXPERIENCE

Cisco - Early in Career (ETC) Networking Associate

August 2024 - Present

- Co-led the planning and execution of monthly professional and social events for a company-wide employee network, drawing 50-120 in-person attendees per event.

NC State - Computer Science Student Ambassador

April 2023 - May 2024

- Selected for leadership and communication abilities as 1/26 student ambassadors representing over 1,800 undergraduates at university and public events; honored as a "Student of Distinction".

CERTIFICATIONS AND AWARDS

Cisco Quarterly Employee Award

March 2025

AWS Certified Developer - Associate

December 2024 - Present

Google Cloud - Associate Cloud Engineer

June 2023 - Present

Eagle Scout

December 2018