

# Cameron Burhans

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## TOOLS, TECHNOLOGIES, & SKILLS

- **Languages:** Python, Java, SQL, TypeScript C#, JS, Swift
- **Software Engineering & Architecture:** System design, API development, scalable systems, automation architecture
- **Cloud & Automation:** AWS (CCP, Solutions Architect), Terraform, CI/CD, MSFT Power Automate, Azure DevOps
- **AI & Intelligent Systems:** AI integration, LLM workflows, LangChain, AI-assisted development
- **Application Development:** React, Angular, FastAPI, iOS (Swift)
- **Data & Persistence:** PostgreSQL, SQLite

## EDUCATION

### University of North Carolina at Chapel Hill

Aug 2020 – Dec 2023

*Bachelor's in Computer Science, Minor in Statistics & Analytics*

- Dean's List Spring 2022, Fall 2022, Spring 2023

## PROFESSIONAL SUMMARY

Software architect and engineer with experience designing scalable systems, cloud-native applications, and automation platforms across Python, Java, and modern web/mobile frameworks. Builds on a foundation of AWS-based development, enterprise workflow automation, and hands-on AI integration to deliver intelligent, production-grade solutions.

## WORK EXPERIENCE

### Essent

August 2024 – Present

#### *Architect / Systems Engineer*

- Designed and developed an automated testing platform for title insurance pricing using React, Python, and JMeter, validating complex business logic across internal systems.
- Architect and implement Power Automate workflow automations, integrating APIs and document processing pipelines to streamline business processes and reduce manual data entry.
- Develop and maintain AWS cloud solutions (Lambda, S3, API Gateway, DynamoDB, EC2, CloudWatch) while modernizing legacy .NET/C# systems and leveraging AI-assisted development workflows.

### DataAnnotation

January 2024 – August 2024

#### *Software Developer*

- Developed programming challenges used to evaluate and improve AI coding models across multiple languages and problem domains.
- Validated and optimized AI-generated code solutions in Python, Java, and SQL to improve reasoning accuracy and response quality.

### Infosys

May 2023 – July 2023

#### *Software Engineering Intern*

- Built LLM security guardrails in Python using LangChain to enforce structured prompt workflows.
- Developed a Streamlit interface for interacting with PostgreSQL-backed LLM systems, exploring early enterprise use cases for generative AI.

## PERSONAL PROJECTS

- **75 Hard Tracker iOS (Swift):** Built a full-featured iOS app using Swift and Firebase for authentication, real-time data storage, and backend integration. Features daily task tracking, progress streaks, push notifications, and calendar views
- **Auction Analytics Platform:** Building an AI-powered analytics tool for auction bidding decisions. Uses TypeScript cloud functions for data preparation and feature engineering, with predictive modeling for ROI estimation and AI-assisted decision support.
- **Web Apps & AI Tooling:** Builds reporting and analytics web applications, leveraging AI to accelerate development and streamline data-driven workflows.