

Elijah Samuels

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FULLSTACK SOFTWARE ENGINEER

Fullstack Software Engineer Systems-oriented engineer with 4+ years of experience building high-stakes applications in FinTech and Telecommunications. Expert in JavaScript/TypeScript ecosystems (Node, React) and cloud-native architecture. Proven track record of securing \$150B+ in transaction volume and reducing cloud infrastructure costs by 90%+. Combines technical rigor with a background in complex project orchestration to lead cross-functional teams and deliver business-critical solutions.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Ruby, HTML5/CSS3.

Frameworks & Libraries: Node.js, Express, React, Redux, Ruby on Rails (RoR), MUI.

Infrastructure & Cloud: AWS (Cloud Practitioner), Terraform, Linux, GitHub, GitLab.

Security & Data: Open Policy Agent (OPA/Styra), ABAC, MySQL, PostgreSQL, MongoDB

Architecture & Testing: REST, SOAP, XML, UML (Sequence Diagrams), Jest, Cypress, Splunk.

AWARDS & ACHIEVEMENTS

Phishing Stories Competition (Social Engineering Village) - [The Wizard Award](#)

DEF CON 33 (2025)

- Awarded for crafting the most technically convincing and sophisticated phishing simulation.
- Applied offensive security knowledge to inform more robust defensive software development practices.

Cloud Practitioner Certification

AWS (2025)

- [82bbd038-e9d4-4d08-bed5-b1b6cd70b0da](#)

EXPERIENCE

CoBank

Denver, CO

Fullstack Software Engineer

November 2024 - Current

- Architected and engineered high-concurrency APIs within a microservices ecosystem to facilitate the secure movement of ~\$150B in capital.
- Implemented Policy-as-Code (PaC) by developing and validating OPA policies with Styra; established Attribute-Based Access Control (ABAC) and JWT-based security to harden API endpoints.
- Established system observability by building comprehensive Splunk dashboards and automated alerting for API logging and metrics, reducing debugging latency and improving production stability.
- Hardened infrastructure security by automating AWS RDS authentication and environment variable management using AWS secrets manager.
- Streamlined data governance by managing complex database migrations with Flyway, ensuring reliable, version-controlled, and repeatable schema changes across environments.
- Optimized CI/CD maturity by integrating automated unit and integration testing into GitHub pipelines, increasing deployment confidence and code quality.
- Engineered financial reconciliation engines using Python-based scheduled processes (CRON) to maintain data integrity as transaction statuses update.

Charter Communications (Spectrum)

Denver, CO

Software Engineer III

August 2022 - November 2024

- Engineered high-impact cost-saving measures, reducing annual AWS expenditure from ~\$200k to ~\$14k (93% reduction) by optimizing AuroraDB query performance and strategically right-sizing database instances.
- Architected and spearheaded the development of a high-scale SMS marketing engine, significantly expanding national customer engagement and outreach capabilities.
- Defined technical standards by developing robust API contracts and endpoints in Node/Express, utilizing sequence diagrams (UML) and comprehensive documentation to streamline cross-team integrations.
- Pioneered an A/B testing & experimentation framework, empowering product owners with data-driven insights that directly influenced marketing strategy and UI/UX enhancements.
- Drove engineering excellence by integrating automated accessibility (a11y) reporting, E2E testing, and integration suites into GitLab CI/CD pipelines, ensuring high-quality production releases.
- Facilitated agile leadership, managing end-to-end production deployments, leading ceremonies, and presenting technical roadmaps to executive stakeholders.
- Cultivated team growth through active pair programming and mentorship of junior developers, fostering a culture of technical rigor and collaborative problem-solving.

Developer September 2021 - May 2022
• Custom CRM built with React/Redux, RoR & Postgres database via AWS
• Organized 200+ musicians throughout USA

Diamond Empire Band/International Artists League Midwestern USA
Musician & Event Producer 2013 - 2024
• Generated over \$1.5M in gross revenue (2019) through coordinating over 300 events
• Organized 1,000+ musicians throughout the mid-western region (NM, UT, CO, KS, MO, NE, AR)

Apple Cupertino, CA
Content Manager November 2007 - April 2009
• Increased team efficiency and accuracy by incorporating AppleScript macros to automate data entry
• Software and hardware technician for 30+ person team

EDUCATION

Flatiron School Denver, CO
Full Stack Software Engineer November 2020 - April 2021

University of Denver Denver, CO
Masters of Music (Jazz Composition & Arranging) May 2013

University of San Francisco San Francisco, CA
Bachelors of Music (Music Education) May 2007