

# 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)

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### EXPERIENCE

#### CoBank

Fullstack Software Engineer

Denver, CO

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)

Software Engineer III

Denver, CO

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
<ul style="list-style-type: none"> <li>• Custom CRM built with React/Redux, RoR &amp; Postgres database via AWS</li> <li>• Organized 200+ musicians throughout USA</li> </ul>	
<b>Diamond Empire Band/International Artists League</b>	Midwestern USA
Musician & Event Producer	2013 - 2024
<ul style="list-style-type: none"> <li>• Generated over \$1.5M in gross revenue (2019) through coordinating over 300 events</li> <li>• Organized 1,000+ musicians throughout the mid-western region (NM, UT, CO, KS, MO, NE, AR)</li> </ul>	
<b>Apple</b>	Cupertino, CA
Content Manager	November 2007 - April 2009
<ul style="list-style-type: none"> <li>• Increased team efficiency and accuracy by incorporating AppleScript macros to automate data entry</li> <li>• Software and hardware technician for 30+ person team</li> </ul>	

## EDUCATION

<b>Flatiron School</b>	Denver, CO
Full Stack Software Engineer	November 2020 - April 2021
<b>University of Denver</b>	Denver, CO
Masters of Music (Jazz Composition & Arranging)	May 2013
<b>University of San Francisco</b>	San Francisco, CA
Bachelors of Music (Music Education)	May 2007