

# LUIS LOZOYA

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Security-Focused Software Engineer with 5+ years of experience building and securing cloud-native applications. Deep expertise in AWS (Lambda, Amplify, Cognito, S3, IAM), React, and Next.js, with hands-on experience designing secure authentication flows, least-privilege access controls, and production-grade deployments. GIAC certified (GFACT and GSEC) through the SANS Cyber Academy. HackOps 2024 Winner and active contributor to Charleston's tech ecosystem.

## QUALIFICATIONS/SKILLS

### Security Fundamentals:

OWASP Top 10, OWASP LLM Top 10, Threat Modeling, SAST/DAST, Secure Coding, Network Forensics, Packet Analysis, Incident Response, OAuth 2.0, AWS Cognito, FusionAuth, Wireshark, tcpdump, Burp Suite, Metasploit

### Artificial Intelligence

LLMs, Vector Databases, RAG Architecture, Prompt Engineering, LLM Security (OWASP LLM Top 10)

### Front-End Technologies

React, Next.js, Angular, Svelte, HTML5, CSS3, JavaScript, TypeScript, Tailwind CSS

### Back-End Technologies

Python, Node.js, Express, REST APIs, MongoDB, Cosmos DB, Supabase, Squid

### DevOps & Cloud

AWS (Lambda, Amplify, Cognito, S3, CloudFront, IAM), Azure (Functions, Pipelines), GitHub Actions

## EXPERIENCE

### Freelance Software Engineer (Contract) | July 2023 – Present

- Global Digital Needs Agency (g/d/n/a) | **March 2024 – Present**
  - Designed and implemented secure authentication and authorization flows using AWS Cognito, enforcing session management, input validation, and security headers across production applications.
  - Architected least-privilege IAM policies across 15+ AWS resources (Lambda, S3, API Gateway, RDS), reducing blast radius in the event of credential compromise.
  - Delivered MVP React applications on AWS Lambda and Amplify, reducing time-to-market by 40% while maintaining production-grade security controls.
  - Integrated Squid AI and Cursor to deliver intelligent developer tools and search experiences, streamlining internal workflows.
  - Architected scalable hybrid infrastructures using AWS and MongoDB, optimizing performance and maintainability.
- Querri | **August 2023 – March 2024 (8 months)**
  - Created responsive Svelte applications to enhance UI performance and user engagement.
  - Designed and implemented FusionAuth authentication with secure session handling and access controls, improving application security posture.
  - Developed a custom HubSpot-powered website with advanced functionality through custom code.

Interloop Technologies, Inc – Charleston, SC | July 2021 – July 2023 (2 years)

**Software Engineer II | November 2022 – June 2023 (8 months)**

- Led multiple high-impact projects using Angular, NestJS, and MongoDB, improving scalability and efficiency.
- Created and managed Azure Functions to automate processes, reducing operational costs for clients.
- Mentored junior developers through code reviews and pair programming, increasing their productivity and onboarding efficiency.

**Software Engineer I | July 2021 – November 2022 (1 year, 4 months)**

- Developed custom Chrome extensions integrated with CRM tools via RESTful APIs and OAuth2.0.
- Improved application reliability by implementing test plans and automation using Cypress, optimizing testing speed and accuracy.

Coastal Millwork and Supply, LLC – Summerville, SC

**Various Roles | September 2015 – June 2021 (5 years, 9 months)**

- **Business Developer / Estimator:** Managed 6-8 bid proposals per week for commercial millwork projects, ensuring accurate cost data, material listings, and labor estimates under tight deadlines.
- **Project Design Engineer:** Led the design and execution of 30+ high-end commercial millwork projects, including Mt. Pleasant Town Hall, Volvo Manufacturing, and Google Charleston Office.
- **Field Project Manager:** Supervised the installation of 5 large millwork projects, ensuring on-time delivery and adherence to client specifications and budget goals.

## **SECURITY PROJECTS & LABS**

- **AWS VPC Flow Log Analysis:** Triaged 173K flow records from 579 compressed log files, identified 265MB exfiltration on non-standard port 8889, and correlated attacker activity across a 6.5-hour attack window using nfcapd and nfdump.
- **Wireshark Packet Forensics:** Analyzed a 628K-packet capture, detected a WordPress brute-force attack (Hydra), and extracted cleartext credentials from HTTP streams.
- **Password Auditing:** Performed offline password cracking against weak hashes to demonstrate the risk of insufficient password policies

## **EDUCATION**

Purdue University Northwest – Online

**Cybersecurity Path – System Administration | March 2022 – May 2023**

JRS Coding School – The Harbor Entrepreneur Center – Charleston, SC

**Full Stack Developer | November 2019 – October 2020**

IE University – Segovia, Spain

**Bachelor's Degree, Architectural Engineering | August 2006 – March 2012**

## **CERTIFICATES & TRAINING**

- GIAC Security Essentials (GSEC) – SANS Institute (2026)
- GIAC Foundational Cybersecurity Technologies (GFACT) – SANS Institute (2026)
- Google AI Essentials – Coursera & Charleston Learning Center (2025)
- GenAI Enterprise Bootcamp (2025)