

Full Stack Engineer with 7 years of experience designing scalable backend architectures, optimizing cloud infrastructure, and crafting seamless user experiences. Passionate about developer tooling, distributed systems, and high-performance applications.

## EDUCATION

**University of Central Florida**  
Degree: B.S Computer Science

**Orlando, FL**  
2014 - 2018

## PROFESSIONAL EXPERIENCE

### **Amazon**

*Software Development Engineer II*  
*Software Development Engineer I*

**Miami, FL (Hybrid)**  
June 2023 - Present  
June 2022 - June 2023

As a Tech Lead and Software Engineer on the globally distributed Fuse Provider Integrations team, I design and architect scalable backend systems that power subscription management for Prime, Prime Video, Audible, Kindle, Luna, and Amazon Music through third-party resellers. **I lead projects from technical requirements gathering, system design, architecture, and implementation to testing, observability, and production deployment.** My work ensures high availability, resiliency, and seamless integrations with Amazon's internal subscription services.

### **Key Projects**

- **Amazon Prime Subscription System Migration** (*Java, AWS Lambda, Feature Flags, Shadow testing*)
  - Led the migration of Amazon Prime's subscription integration within Fuse to a new internal system, ensuring compatibility and high-traffic resilience.
  - Designed a controlled rollout strategy using feature flags and shadow testing, executing parallel processing with real-time data validation and automated comparisons to ensure a seamless, error-free transition.
- **Event Processing Service Optimization** (*TypeScript, Node.js, AWS Step Functions, Lambda, SQS, CloudWatch*)
  - Optimized an event-driven processing service handling 100K+ events daily, reducing AWS compute costs by ~50% and improving execution time by ~30%.
  - Refactored AWS Step Functions workflows architecture, reducing excessive Lambda calls from 10+ to 4, improving system debuggability and observability with standardized logging and metrics.
- **Prime Video Smart TV Subscription Activation** (*Java, DynamoDB, AWS Lambda, API Gateway*)
  - Architected and implemented backend services for millions of LG and Samsung Smart TV users, enabling seamless Prime Video trial activation via a QR code login flow.
  - Developed a polling-based authentication mechanism using DynamoDB and Lambda, ensuring secure account linking between the user's mobile device and smart TV.
- **AI-Powered Log Summarization for Incident Management** (*Amazon Bedrock, AWS Step Functions, CloudWatch, Lambda*)
  - Integrated Amazon Bedrock LLM models with AWS Step Functions and CloudWatch to automate error log analysis and attach AI-generated summaries to tracking tickets, reducing manual debugging time and improving on-call efficiency.

### **LSQ**

*Software Engineer*  
*Software Engineer Intern*

**Orlando, FL (Hybrid)**  
Jan 2019 - June 2022  
Aug 2018 - Dec 2018

- Designed and implemented the migration of a monolithic **TypeScript Angular** application to a **Micro Frontends (MFE) architecture**, using Webpack Module Federation, enabling faster independent deployments, improving developer experience, and maintaining a seamless user interface.

- Integrated **GitHub Actions** to automate code review builds, testing, and deployment, streamlining CI/CD workflows and enabling seamless updates to AWS CloudFormation stacks
- Created a **CI/CD** deployment monitoring tool using Angular and **AWS API Gateway/Lambda/DynamoDB** as a hackweek project, providing teams with a user interface for real-time deployment status, promotion controls, and rollback capabilities for **AWS CodePipeline and CodeBuild**.
- Developed key features for customer-facing web applications, including implementation of backend services in **Java and Node.js**, enhancing user access to payment requests, bank account connections, and invoice submissions

## **FIS Global**

**Orlando, FL**

*Software Developer Intern*

June 2018 - Aug 2018

- Developed and integrated a business intelligence dashboard into an existing ASP.NET MVC 5 web application, leveraging SQL queries to pipe data into PowerBI for interactive visualizations and custom front-end filtering.

## **UCF Office Of Research and Commercialization**

**Orlando, FL**

*Web Developer Intern*

Aug 2017 - Dec 2017

- Collaborated with stakeholders across the organization to gather requirements and design a new landing page. Created high-fidelity mockups in Photoshop and developed a responsive single-page website using HTML, JavaScript, and CSS, enhancing the office's online presence and accessibility

## **SKILLS**

**Programming Languages:** Java, TypeScript, JavaScript, C#

**Technologies:** AWS, React, Next.js, React Native, Angular, SQL, PostgreSQL, MySQL, Node.js, Docker, Firebase, GitHub Actions.

**Other:** Distributed Backend Systems, Event-based Architecture, Cloud Infrastructure, Frontend Applications, AI-powered applications, Scripting, Rest APIs, CI/CD, UI/UX

## **PROJECTS**

- **RecipeForge** (*TypeScript, React, Next.js, Tailwind CSS, Firebase, OpenAI API, Google Gemini API*) - [recipeforge.app](https://recipeforge.app)
  - Developed RecipeForge, a recipe and meal planning web app that enables households to store, import, and generate recipes using AI-powered tools.
  - Integrated OpenAI API for recipe image generation and Google Gemini API for text-based recipe creation, allowing users to generate recipes from descriptions.
  - Built a responsive, mobile-friendly UI with Next.js and Tailwind CSS, ensuring an intuitive user experience.
  - Implemented real-time synchronization across devices using Google Firebase Firestore and Authentication.
- **OneCart** (*TypeScript, Expo, React Native, iOS, Tailwind CSS, Firebase*) - <https://onecart.clemann.app>
  - Developed OneCart, a cross-device grocery list app using React Native (Expo) and Firebase, now live on the Apple App Store.