

# Tyler Olli | Lead Software Engineer

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## Engineering Distributed Applications at Scale

Lead full-stack engineer with a track record of building scalable fintech and enterprise applications. Experienced in designing and delivering end-to-end systems across modern frontend architectures and backend services, including APIs and data workflows. Focused on clean architecture, pragmatic engineering decisions, and AI-informed system design.

API Architecture | Distributed Systems | Serverless and Cloud Platforms | Data Workflows  
Frontend Component Systems | AI-Assisted Development and Context Engineering | Technical Leadership

## Technologies

<b>Languages:</b>	JavaScript, TypeScript, Java, SQL
<b>Platforms and Cloud:</b>	Adobe Experience Manager (AEM), AWS Lambda
<b>Frameworks:</b>	React, Next.js, Angular, Vue.js, Node.js
<b>Data and Infrastructure:</b>	PostgreSQL, MongoDB, Redis, Snowflake, Amazon S3
<b>AI Tooling:</b>	GitHub Copilot, Cursor, ChatGPT, Claude, Gemini

## Professional Experience

### ModelTriage – AI Platform (Independent Project)

2026

- Built a platform that selects the most effective AI model for a given prompt and enables side-by-side comparison of responses, highlighting key differences and reasoning to support informed model selection
- Implemented structured prompt orchestration and context-driven generation to enable consistent, repeatable evaluation of large language model (LLM) outputs across diverse tasks

### Blankfactor – Miami, FL | Lead Software Engineer

2023 – 2025

Owned architecture and delivery of core financial platforms across distributed services and engineering teams.

- Led a team of five engineers to ship a mission-critical account registration portal that consolidated account access and authentication into a single shared system built using React, AEM, and Java services, reducing friction for 100,000+ users
- Owned the end-to-end development of a retirement plan swap experience, designing backend APIs and an Angular frontend that enabled real-time plan changes with advisor guidance, while eliminating redundant content management for internal teams.
- Architected a rules-driven eligibility and content system using Next.js, Node, Redis, and PostgreSQL to determine user actions and messaging, enabling personalized, server-rendered experiences and centralized management of policy-driven eligibility and decision logic
- Designed and led the development of backend data workflows that process user-specific financial data, enabling personalized plan experiences while scaling reliably under increased usage, using AWS Lambda functions written in TypeScript to orchestrate Java microservices, Snowflake queries, and S3 data pipelines.
- Implemented GitHub's Spec Kit framework to build an AI-driven translation tool that used structured context from user stories and requirements to automatically generate localized content within AEM and React, reducing third-party translation costs and turnaround time
- Used AI-assisted development tools (Cursor, GitHub Copilot), leveraging multiple LLMs (OpenAI, Anthropic, and Gemini) to accelerate development and improve code quality by generating tests, modernizing legacy code, and streamlining documentation across multiple projects.

**Senior Software Engineer (2022 – 2023)**

Promoted to a senior role to lead architecture and delivery across multiple enterprise products, improving developer efficiency, system performance, and user experience consistency at scale.

- Served as technical lead for the NetScaler and XenServer web platforms, owning end-to-end delivery and coordinating across cross-functional teams to ship reliable, consistent releases
- Led modernization of legacy AEM web platforms, rebuilding core Java services alongside React components, simplifying platform architecture and maintainability, while delivering faster load times with a more consistent cross-site user experience
- Built embeddable modules and product widgets using React and Node.js on AWS serverless infrastructure, enabling teams to reuse functionality across products and accelerate feature delivery
- Developed Vue.js based applications, including a JWT secured internal SKU lookup tool, interactive forms, and pricing calculators, delivering faster and more reliable cross-team workflows
- Consolidated fragmented components built with React and AEM into a shared, centralized codebase, increasing reuse and ensuring consistent behavior across multiple high-traffic sites
- Built a company-wide unsubscribe service backed by MongoDB, centralizing email preference management across multiple applications with differing data formats
- Partnered with QA and accessibility teams to introduce automated testing workflows (Jest, Axe), ensuring WCAG compliance, reducing regression issues, and improving release confidence

**Software Engineer (2020 – 2022)**

Led development of large-scale web applications and platform enhancements from concept to deployment, delivering solutions that improved user experience, load times, and multi-site scalability.

- Managed a rebranding effort spanning 10 web applications, updating React and AEM components to standardize layouts, navigation, and visual behavior across properties
- Led a global product renaming initiative across 27 international sites, coordinating frontend and backend updates to content models, APIs, and site configuration to deliver a smooth, synchronized rollout
- Built interactive purchasing workflows and resource libraries using React, designing and integrating REST APIs to support reusable purchasing functionality across applications
- Improved platform reliability by streamlining reCAPTCHA validation and SendGrid email delivery across sites, reducing errors and ensuring consistent form submission and messaging behavior
- Created reusable UI components within React and AEM, including mega menus, video players, and content carousels, giving content teams more flexible and reliable ways to build pages
- Maintained and updated WordPress and Shopify sites by writing custom PHP and Liquid logic, improving product presentation and purchase flows across legacy and ecommerce properties
- Integrated Drift and Einstein chatbots using custom JavaScript integrations, enabling real-time customer engagement and improved support responsiveness

**Education****Udacity – React Nanodegree Program**

2020

- Built declarative UIs with React, React Native, and Redux through hands-on projects in component design, state management, and mobile development.

**University of North Carolina at Charlotte – Full Stack Coding Boot Camp**

2016 – 2017

- Developed full-stack applications using the MERN stack through project-based learning
- Built final project with React and Redux, integrating SoundCloud's API

**High Point University – Bachelor's Degree in Communications**

2012 – 2016

- Concentration in Electronic Media / Minor in Graphic Design