

Tyler Olli | Senior 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

- Languages:** JavaScript, TypeScript, Java, SQL
- Platforms:** Adobe Experience Manager (AEM), AWS Lambda
- Frameworks:** React, Next.js, Angular, Node.js
- Data:** PostgreSQL, MongoDB, Redis, Snowflake, Amazon S3
- AI Tooling:** 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 | 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

Citrix | Senior Software Engineer | 2020 – 2023

Owned architecture and delivery across multiple enterprise web platforms, driving modernization, reuse, and consistency at scale while coordinating across cross-functional teams.

- Served as technical lead for NetScaler and XenServer web platforms, owning end-to-end delivery and coordinating releases across product, design, and backend teams
- Led modernization of legacy AEM platforms, rebuilding core Java services alongside React components to simplify architecture, improve maintainability, and deliver faster load times with consistent UX
- Built embeddable frontend modules and reusable product widgets using React and Node.js on AWS serverless infrastructure, enabling shared functionality across multiple products
- Consolidated fragmented React and AEM components into a centralized shared library, increasing reuse and ensuring consistent behavior across high-traffic sites
- Led global rebranding and product renaming initiatives across 10+ applications and 27 international sites, coordinating frontend and backend updates to content models, APIs, and configuration
- Built interactive purchasing workflows and resource libraries using React and REST APIs to support reusable purchasing functionality across applications
- Developed internal full-stack applications, including a JWT-secured SKU lookup tool, interactive forms, and pricing calculators, streamlining cross-team workflows
- Built a company-wide unsubscribe service backed by MongoDB, centralizing email preference management across multiple applications
- Improved platform reliability by streamlining reCAPTCHA validation and SendGrid email delivery, reducing form submission errors and messaging inconsistencies
- Partnered with QA and accessibility teams to introduce automated testing workflows (Jest, Axe), improving WCAG compliance and release confidence

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