

Ashton Allen

Software Engineer · Portland, ME

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SUMMARY

Software engineer focused on making systems work together: identity providers, industrial protocols, AI models and the business tools around them. Five years moving between building software and delivering it, from e-commerce backends to enterprise identity rollouts to test automation and AI integration for an industrial software platform. Equally comfortable in a codebase or on a customer call.

EXPERIENCE

Software Engineer, Platform Quality

2024–Present

HighByte, Portland, ME

Java · TypeScript · React · Python · Playwright · Jest · Vite · Docker · SQL · MQTT · OPC UA · MCP

- Built and own an automated test framework integrated into CI/CD, validating authentication, authorization and data flow across React and Java microservices and cutting manual regression effort.
- Wrote end-to-end suites verifying data flow and interoperability across MQTT, OPC UA, REST and SQL.
- Designed a performance benchmarking system using Dockerized test harnesses and telemetry logging to catch CPU, memory and latency regressions before release.
- Led testing and integration of LLM and AI agent features in the core platform, including MCP integrations, so they work reliably alongside existing microservices.

Technical Account Manager

2022–2023

LumApps, Austin, TX

Okta · Microsoft Entra ID · Google Cloud · React · SQL · ServiceNow · Jira · Salesforce

- Owned the technical lifecycle for enterprise customers, from discovery and design through integration, launch and post-launch support.
- Built migration toolkits and reusable automation scripts that let global partners deploy LumApps and its integrations.
- Advised customers on deployment architecture and REST API integration across varied environments.

Solutions Engineer, Partners

2022

LumApps, Austin, TX

Okta · Microsoft Entra ID · Google Cloud · React · TypeScript · Node.js · SQL · Docker · Postman

- Integrated Okta, Microsoft Entra ID and Google identity providers over OIDC, SAML and SCIM for automated provisioning, group-based access control and claims-driven role assignment.
- Built custom scripts and extensions for the LumApps Marketplace to fill customer-specific gaps.

Backend Developer

2021–2022

Techniart, Collinsville, CT

Magento · PHP · SQL · Knockout.js · HTML/CSS

- Built and launched 30+ Magento e-commerce sites with custom themes, modules and integrations.
- Improved data collection and analytics reporting, lifting conversions 15%.
- Led A/B testing that cut bounce rate 25% across client sites.

Software Engineering Internships

2019

GlobalFoundries · Vermont Information Consortium

- GlobalFoundries: automated pre-tapeout design-rule verification of semiconductor layouts (Java, Python, Linux).
- Vermont Information Consortium: built an AI chatbot to make State of Vermont online services more accessible (Watson Assistant, NLTK).

EDUCATION

B.S. Computer Science, Champlain College

2020

Burlington, VT · GPA 3.57 · CompTIA Security+ in progress