

Jon Jaques

SOFTWARE DEVELOPER

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Experienced full-stack developer passionate about system architecture, DevOps, and CI/CD for rapid, high-quality software delivery. Skilled in designing scalable applications, leading engineering initiatives, and optimizing development workflows. Deep expertise in JavaScript, cloud infrastructure, and modern software design patterns.

EXPERIENCE

PRINCIPAL SOFTWARE DEVELOPER

Alula — St. Paul, MN

Subsidiary of M2M Services

04/2019 - 03/2024

- Led the development of a modern SPA application serving as the primary portal for businesses and consumers to interact with the Alula Security platform. This included device provisioning and management, user management, and real-time security system and camera controls for over 300,000 deployed devices.
- Architected and led an initiative to instrument all services with OpenTelemetry, providing a unified view of platform performance and reliability. This helped detect and resolve scaling bottlenecks, reduced downtime, and improved customer satisfaction.
- Led a team in migrating key components of the security platform—including the primary production database and several critical applications—from colocation environments to an AWS-based infrastructure using Docker. Implemented centralized logging and metrics via the ELK stack and transitioned from manually built servers to uniform environments deployed with Terraform and AWS Secrets Manager.
- Led the consolidation of hundreds of repositories into a common CI/CD pipeline, implementing static analysis and versioned artifacts. This improved deployment speed and reduced integration issues.
- Served as the primary contact for external developers integrating with Alula services, providing documentation, support, and guidance.
- Developed high-level client libraries for interacting with Alula services and its custom device communication protocol.
- Led an R&D initiative to build a universal consumer app (iOS, Android, Web) for interacting with security systems, cameras, and other devices. Integrated native SDKs for various camera vendors, implemented offline support, and ensured a consistent cross-platform user experience.
- Provided on-call leadership and troubleshooting support, including maintaining the marketing WordPress site and managing legacy PHP and .NET applications.

SKILLS

LANGUAGES

JavaScript 5 ☆ HTML 5 ☆
HCL 4 ☆ TypeScript 4 ☆
CSS 4 ☆ PHP 3 ☆
Ruby 3 ☆ Bash 3 ☆
C# 2 ☆ Python 2 ☆
Go 2 ☆

FRAMEWORKS

Node.js 5 ☆ React.js 5 ☆
React Native 4 ☆
Redux/Zustand 4 ☆
Terraform 4 ☆ Rails 3 ☆
Angular 3 ☆ .NET 2 ☆

PLATFORMS

AWS 4 ☆ Shopify 3 ☆
Cloudflare 3 ☆ Wordpress 3 ☆
GCP 2 ☆

DATABASES

PostgreSQL 4 ☆
Elasticsearch 4 ☆
Prometheus 4 ☆ MariaDB 3 ☆
MongoDB 3 ☆ Redis 3 ☆

PROTOCOLS

WebSockets 4 ☆ HTTP/TLS 4 ☆
TCP/IP 3 ☆

SENIOR JAVASCRIPT DEVELOPER

Best Buy — Richfield, MN

09/2017 - 04/2019

Contracting with Kelly Mitchell Group

- Developed and prototyped an IoT platform using Node.js and Elasticsearch to enable real-time command execution and state synchronization across multiple smart home vendors.
- The prototype evolved into a production system integrated with BestBuy.com and the Home app, enabling customers to control smart home devices from a unified interface.
- Early adopter of an internal framework known as Global View Platform, which utilized React Native (+Web), Redux, and the internal BBY design system for a universal component which could be rendered on the web, iOS, and Android.
- Worked with business stakeholders and vendors to define requirements and develop a unified API for controlling smart home devices.
- Collaborated with teams across the engineering organization to coordinate on platform architecture, security, and scalability.
- Mentored junior developers on best practices, code reviews, and architectural decisions.
- Supervised an offshore team to integrate new vendors and devices into the platform, reviewing daily pull requests, ensuring code quality, and enforcing test-driven development practices.

LEAD APPLICATION DEVELOPER

3five Design — Duluth, MN

06/2015 - 06/2017

- Partnered with clients to understand requirements, define solutions, and architect custom applications.
- Developed consumer-facing SaaS applications, including a support/ticketing system, a commission-tracking tool, and an on-demand printing solution. These applications improved operational efficiency and streamlined workflows for clients.
- Partnered with high-profile clients to integrate Shopify stores with enterprise ERP platforms like Microsoft Dynamics.
- Created open-source Node.js frameworks to aid developers in building Shopify applications.

SENIOR FRONT-END ENGINEER

ARI Network Services — Duluth, MN

05/2010 - 06/2015

Formerly 50 Below Sales & Marketing

- Built the front-end for a multi-faceted search engine that allowed users to search across multiple catalogs and custom dealer inventories.
- Designed and implemented a wheel visualization tool that enabled customers to preview wheels on their vehicles.
- Prototyped mobile-compatible features for a legacy .NET platform.
- Created a CSS framework to grant designers greater flexibility in site designs site-building efficiency by 3x.
- Developed custom websites on a proprietary eCommerce CMS hosting 10,000+ websites, handling PSD slicing, CSS, and JavaScript implementation.

EDUCATION

UNIVERSITY OF MINNESOTA

Duluth, MN

09/2009 - 05/2011

Coursework in Graphic Design & Photography

ANOKA RAMSEY COMMUNITY COLLEGE

Cambridge, MN

09/2007 - 05/2009

General Coursework