

# Alexander Martin

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## Profile

Experienced Lead Software Developer proficient in a variety of programming languages and technologies including JavaScript/TypeScript, Kotlin/Scala/Java, Python, and more. Skilled in working with databases, containerization, cloud services, and CI/CD tools. Seeking a challenging role as a Senior Developer or Tech Lead where I can leverage my expertise to drive innovation and lead a team towards success.

## Employment History

2015 — PRESENT NEW YORK, NY

### Lead Software Developer Thoughtworks

#### Selected Projects

- Led a team of developers located in the US and India implementing native ecommerce functionalities for a prominent agricultural manufacturer. Enabled direct-to-consumer online sales of large equipment while maintaining the integration with the existing dealer network.
- Tech Lead of a team developing itinerary planning software for a cruise line headquartered in Miami, FLA. Modeled numerous spreadsheets into a comprehensive graph using Amazon Neptune. Built a management UI in Angular for analysts to efficiently manage revenue and plan future cruises.
- Led a team of software developers to create a digital COVID-19 triage tool for a federal hospital, based on the ACEP COVID-19 ED Management Tool. Developed a SMART-on-FHIR prototype application that paved the way for the client to utilize and customize various healthcare applications.
- Tech Lead of a team focused on integrations for a renowned German luxury automotive brand to introduce their vehicle search to the US market. Utilized AWS services, including Lambdas, to develop solutions in Kotlin and node.js for data ingestion, processing, and presentation from 3rd party providers such as HomeNet, Carfax, and Experian. Collaborated closely with cross-functional teams in Germany.
- Spearheaded the development of a distributed system of record for selling annuities, contributing to the establishment of a microservice architecture and setting up Kafka infrastructure. Implemented

## Employment History

development patterns using Kotlin and node.js, with a React UI, and facilitated deployment on Kubernetes through TeamCity. Facilitated the transition of the development team offshore to Ecuador, ensuring a seamless continuation of project progress and collaboration.

- Tech Lead for development and delivery of a web application for a prominent NY hospital, facilitating patient registration for virtual medical appointments. Orchestrated the transition of the development team offshore to Ecuador. Recognized for excellence in work, with the project being featured in Microsoft Ignite 2017 Vision Keynote.

2012 — 2015 CONSHOHOCKEN, PA

### Software Engineer Jornaya (formerly LeadID)

- Acquired by Verisk in December, 2020 for \$125M
- Led the design and implementation of a patented technology that captures webpages in real-time, allowing for playback of user interactions.
- Key contributor in migrating from PHP to Scala, including developing utilities, constructing library interfaces, and implementing business logic.
- Created an internal distributed tracing library in Scala, inspired by Google's Dapper, with support for tracing Scala Futures and Akka Actors.

2011 — 2012 JENKINTOWN, PA

### Software Engineer Managing Editor Inc.

- Primary developer focused on the prototyping and development of the inaugural version of Portico, a customizable storefront optimized for seamless integration with Adobe Digital Publishing Suite mobile apps

## Patents (Inventor)

- US20150278384A1 — System, apparatus, and process for pulling/capturing content
- US20190317977A1 — Replaying user activity by capturing content and rebuilding the webpage at each web event

## Technologies & Competencies

### – LANGUAGES

JavaScript/TypeScript	
Kotlin/Scala/Java	
Python	
Bash	

### – SOFTWARE & UTILITIES

Postgres/MySQL	
Docker/Kubernetes	
AWS	
Git Actions/Jenkins	
Kafka/Zookeeper	

### – CONCEPTS

Hexagonal Architecture	
CI/CD	
Unit, Integration, & e2e Testing	
Pair Programming	
Event Driven Architecture	
Domain Driven Design	
Microservice Architecture	
OO Programming	
Functional Programming	
Mechanical Sympathy	
Distributed Tracing	
Load Testing	