

Hector Ramos

SENIOR SOFTWARE ENGINEER

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Senior Software Engineer on Bloomberg's Search and Personalization team
Engineered a self-serve end-to-end A/B testing solution at scale for millions of users daily
Led development on User-API, a performant federated GraphQL API for Bloomberg.com user data

Skills

Languages Javascript, Typescript, Python, GraphQL, C#, Ruby, Java, Kotlin, SQL, Postgres, VCL
Web React, Vue.js, Redux, Next.js, Jest, Selenium, Redis, AWS, Redis, Fastly, Rails, ASP.NET, Django, HTML, CSS
Other Docker, Jenkins, Edge Computing, Apache Airflow, Elastic Search, Google Tag Manager, Google Analytics, JIRA, Git

Experience

Bloomberg

Princeton, NJ

SENIOR SOFTWARE ENGINEER - SEARCH & PERSONALIZATION

October, 2020 - Current

- Engineered a self-serve end-to-end A/B testing solution including both client and server-side testing at scale for millions of users daily
- Led development of User-API, a publically exposed GraphQL Federated Service that serves PII and handles millions of requests daily
- Admin of GoogleTagManager and GoogleAnalytics; responsible for large ingestion jobs into BigQuery using Apache Airflow
- Currently improving Bloomberg.com's search and personalization by incorporating AI and ML algorithms iteratively with A/B testing

ShopRunner

Conshohocken, PA

SOFTWARE ENGINEER - PAYMENTS & FRAUD

October, 2019 - October, 2020

- Engineered a fast and secure portal assisted consumer checkout system across multiple retailer websites [similar to paypal]
- Developed RESTful APIs handling consumer credit cards with third party tokenization in line with PCI security standards

Jensen Brusca Consulting Group

Hamilton, NJ

FULL STACK ENGINEER TEAM LEAD

October, 2016 - October, 2019

- Lead development on a comprehensive Walgreens Pharmacy website serving hundreds of pharmacy locations nationally
- Engineered APIs interfacing with large sensitive healthcare web services for patient/insurance data securely and routinely
- Deployed, maintained, and improved websites in Microsoft Azure via IIS using Javascript, ASP.NET MVC, and MS SQL technologies

Projects

Bloomberg.com Custom A/B Testing Solution

Languages: Javascript, Ruby, SQL

IN-HOUSE FULLY CUSTOMIZABLE A/B TESTING SOLUTION SUITE

Technologies: React, Rails, AWS S3

- Internal webapp provides customers the ability create their own A/B tests. This includes user targeting, config definition, and delivery
- Precompiles the current experimentation landscape into a 'finite state machine', caches it via our CDNs to be served globally quickly
- A custom package ingests the finite state machine and current user/browser state to place users into A/B experiments real-time
- Caching and parallelization in virtually every step allows our custom A/B testing solution it to serve millions of users daily at scale!

ShopRunner Express Checkout

Languages: Javascript, Java

CONSISTENT CHECKOUT EXPERIENCE ACROSS RETAILERS

Technologies: React, Kotlin

- Delivers a consistent, easy and secure consumer checkout experience across hundreds of retailer websites [similar to Paypal]
- Implements secure tokenization for credit cards and other sensitive consumer data in line with PCI security standards
- Clever implementation of iframes to deliver our content allows updates to apply to hundreds of retailer websites instantaneously

Walgreens A-1 Specialty Pharmacy

Languages: C#, Javascript, SQL

WALGREENS SPECIALTY PHARMACY INTEGRATION

Technologies: ASP.Net, JQuery, MS SQL

- Lead a team to fully migrate and synchronize existing and future Walgreens data into an pre-existing Pharmacy Solution
- Serves hundreds of pharmacy locations across the USA, delivering hundreds of thousands of patient prescriptions at scale annually
- Features a RESTful ASP.NET MVC admin portal for healthcare programs, with permissions management for users, usergroups, etc

Education

Rutgers University (School of Engineering)

New Brunswick, NJ

BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

Relevant Courses: Programming Methodology, Data Structures, Computer Architecture and Assembly, Discrete Mathematics