

Joe Badaczewski

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Senior Software Development Engineer with 12+ years of proven experience building large-scale, full-stack systems and mobile applications using C#, Node.js, React Native and TypeScript

Professional Experience

Softwriters, Inc., Pittsburgh, PA

Senior Software Engineer

03/2024 - Present

As a lead full-stack developer for the FrameworkCourier team, I am responsible for planning, designing, developing, and maintaining our product which powers the delivery of millions of controlled and uncontrolled substances through a system of long-term care pharmacies and facilities. This distributed system consists of a set of Web APIs and microservices written in C# and a modern, accessible, and performant Angular client app.

I am also a lead engineer for two industry leading mobile applications written in React Native. I implemented complex features such as native 2D barcode scanning using Android's ML Kit in Kotlin and object recognition using Apple's Vision framework in Swift. These features increased the accuracy of pharmacy inventory and improved pharmacy packaging throughput.

At SoftWriters, I also lead meetings as a full-stack expert on building reliable and testable distributed systems. This job requires an expert skill level in C#, TypeScript, cloud services, and service-oriented architecture at scale.

Amazon Web Services, Seattle, WA (remote)

Front-end Engineer II

05/2022 - 03/2024

As a lead developer for the CloudWatch Logs (CWL) team, I maintained a feature rich AWS micro frontend that provided visualizations and insights into service logs running at a global scale. This job requires deep knowledge of the principles of application observability and monitoring.

I implemented accessible and internationalized features that provided real time data to millions of users. As the world leader in monitoring solutions, I had to make critical considerations for thousands of different user devices and internet capability variations. Also, I collaborated with service teams on developing high quality, high volume, and highly available services. This role required an expert skill level in frontend system design, React, TypeScript, and working in a rigorous, impactful, and highly complex development environment which orchestrates thousands of frontend and backend packages deployed independently. Here are some other accomplishments from my time at AWS:

- ❖ **I was a lead developer for [Log anomaly detection](#).** As the lead developer, I planned and implemented a performant set of tools for analyzing log anomalies including pattern inspection and a log anomaly histogram. I was a part of the launch team at AWS conference re:Invent and tracked the wide adoption of this feature to 80,000+ unique users in the first month. This required a deep understanding of application observability and an expert skill level in building highly performant, data driven applications with intuitive visualizations.

- ❖ **I was the lead developer for migrating [CWL Insights](#) (CWLI) to a more secure internal API.** As the lead developer, I orchestrated the migration of the CWLI to a more secure API without affecting the uptime of our application. With an average daily request rate of 2M+ requests per day, this migration required deft error handling and a comprehensive fallback strategy for each API point used by CWLI.
- ❖ **I was shadowed by 3 new developers** in a rigorous on-call environment. I guided these developers in best practices for being on-call for a three nines service with a 15 minute response time. This required excellent communication, leadership, and a knack for managing multiple responsibilities simultaneously.
- ❖ **I was a volunteer at a local school to teach [Code.org's Hour of Code](#).** I instructed 3 one-hour sessions to elementary and high school students on the importance of STEM careers. I lead an interactive workshop that introduced students to basic programming concepts. This required a passion for teaching.

Homee, Inc., Orlando, FL (remote)

Senior Software Engineer, Team Lead

10/2021 - 05/2022

As a full-stack team lead at Homee, Inc., I drove the development lifecycle for four industry grade mobile applications for iOS/Android that focused on simplifying the process of assessing, estimating, and fulfilling insurance claims. I implemented advanced features such as turn by turn navigation, locations-based consumer and provider matching, offline syncing and fault tolerance, optical character recognition for analyzing estimates and receipts, and an intuitive scheduling interface including efficient native gestures and animations. This job required an expert skill level in Node.js, React, React Native, Redux, TypeScript, AWS, Postgres, Redis, and OIDC. These were my accomplishments as an engineer at Homee Inc.:

- ❖ **I was a lead back-end architect on cross team authentication and authorization using AWS Cognito.** I planned and implemented a shared OIDC provider across a cluster of microservices and organized a new team dedicated to these types of infrastructure concerns. This required knowledge of distributed systems and authentication layers.
- ❖ **I hired and developed a mobile development team** to deliver four enterprise mobile applications. I worked closely with the CTO in identifying skilled candidates and onboarding them successfully to our platform. This required excellent interviewing skills and an aptitude for leadership.
- ❖ **I wrote a comprehensive collection of technical documentation** for our engineering processes and release guidelines. I worked closely with other team leads to deliver a set of scalable technical documents that elevated our engineering culture at Homee. This required skillful collaboration and a passion for documentation.

Softwriters, Inc., Pittsburgh, PA

Senior Software Engineer

05/2020 - 10/2021

As a lead developer of the mobile team, I developed and maintained a suite of two iOS and Android applications that streamlined the packaging, reviewing, and delivery of controlled and uncontrolled substances from thousands of long-term care pharmacies to 100,000+ facilities. My contributions led to improvements in accessibility, usability, and increased throughput for pharmacy operations. I was also the lead architect in designing and deploying a distributed system responsible for tracking the chain of custody and courier history of millions of prescriptions. This job requires an expert skill level in C#, TypeScript, cloud services, large-scale system design, and service-oriented architecture.

Proofpoint, Pittsburgh, PA
Senior Software Engineer

09/2019 - 05/2020

I was a lead developer and code owner of multiple enterprise React/Redux/TypeScript applications that provide training assignments and exercises to 15,000+ concurrent users. I provided architectural direction philosophy for a team of front-end and back-end developers. This job required an expert skill level in React, Node.js (NestJS), TypeScript, CI/CD, Git, and the principles behind scaling a multi-contributor code base within an Agile environment.

Idelic, Pittsburgh, PA
Software Engineer

02/2019 - 09/2019

I was lead developer for web applications aiding terminal managers of trucking companies with monitoring and improving driver performance and safety. I utilized microservices via Docker to create a multi-tiered platform that achieved high levels of concurrency, availability, and reliability. This job required an expert skill level in Node.js, React, React Native, Redux, and Docker. Also required knowledge of Scala, PostgreSQL, and test-driven development.

PSI Services, LLC, Pittsburgh, PA
Software Engineer

10/2017 - 02/2019

I was a software engineer responsible for creating and maintaining HR solution software that assists Fortune 500 companies with selecting the best available candidates. I worked closely with Industrial and Organizational psychologists to develop algorithms that assess a candidate's potential for success. This job required extensive knowledge in C#, unit testing, OOP, Angular, JavaScript ES6, cloud computing, and CI/CD.

Brunner, Pittsburgh, PA
Senior Visual Developer

09/2014 - 10/2017

I was a senior developer responsible for planning and building web applications for a myriad of companies in the financial and e-commerce/retail industries. I lead a team of front-end and back-end developers in delivering highly performant and low-latency web and mobile applications that drove leads for our customers and managed billions of dollars in investments. This job required expert level knowledge of C#, TypeScript, and project management.

Education

M.S. Multimedia Technology, 2012 - 2014
Duquesne University, Pittsburgh, PA

B.A Digital Media Arts, 2008 - 2012
Duquesne University, Pittsburgh, PA