Justin (JT) Archie

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GitHub LinkedIn Blog

Engineering Leader

Experienced software engineer with over 17 years of expertise across diverse business domains, including finance, logging platforms, real estate, fitness, marketing, and more. Skilled in front-end and back-end development, I excel at revitalizing underperforming teams through sustainable delivery practices and exceptional leadership. I have a proven ability to establish and guide greenfield teams while minimizing technical debt. A dedicated mentor with a strong track record of advancing colleagues' careers, I am a hands-on contributor focused on delivering high-quality software and impactful solutions. Known for my unwavering commitment to meeting deadlines, I consistently deliver results and ensure that the job gets done, no matter the challenge.

Experience

Staff Software Engineer at Backerkit (4/2025-Present)
- Leading technical direction and architecture decisions as a Staff Software Engineer, driving modernization initiatives across a large-scale Ruby on Rails application.
- Successfully led the seamless migration of tens of terabytes of application blob storage from AWS S3 to Cloudflare R2, ensuring zero downtime and no customer impact.
- Optimized performance of a mission-critical customer segmentation endpoint, reducing response time from 15 seconds to under 3 seconds, significantly improving user experience and system efficiency.

Software Engineer Contractor at 33 Teams (10/2024-2/2024)
- Led the migration of a client's banking platform, transferring $10M across 20,000 accounts while minimizing downtime and meeting a critical 2024 deadline.
- Introduced enhanced auditing features, empowering our client with deeper insights into financial operations and legal compliance.
- Acquired expertise in payment processing (via Typescript and Event-Driven Architecture), including financial institution idiosyncrasies, legal requirements, and operational nuances beyond standard payment integrations like Stripe.

Software Engineer Contractor at Hachi (11/2023 - 2/2024)
- Spearheaded a high-stakes rescue project to rebuild a failing social media analytics product from scratch, ensuring it met investor readiness within one month.
- Architected a data aggregation platform using Ruby on Rails and JumpStartPro to integrate and summarize multi-platform social media profiles using natural language processing.

Founder at [Knowhere](#) (04/2024-Present)
- Designed and developed a real estate search platform leveraging OpenStreetMap data to enable hyper-specific neighborhood-based searches, e.g., proximity to schools and retail locations.
- Engineered a high-performance read-only data query system using Go, React, and SQLite, achieving sub-second response times for U.S.-wide searches. A compression technique was used to reduce the size of SQLite databases from 100GB to ~10GB.

Senior Staff Engineer / Tech Lead at [Move, Inc](#) (9/2021 - 3/2023)
- Built and led the Identity Management team (using NestJS and Typescript), tasked with unifying user data across 20 years of disparate acquisitions to enable seamless user identification and reduce technical silos.
- Developed an in-house Typescript testing framework for AWS Lambda at Edge, reducing testing time from days to seconds.
- Optimized a critical application, achieving a 20% reduction in costs and a 45% decrease in error rates, thereby enhancing system reliability and user satisfaction.
- Streamlined operations by retiring multiple legacy applications, saving over $600k annually in infrastructure costs.
- Coordinated nine teams for a seamless authentication migration to Auth0, benefiting over 100 million active users.

Senior Staff Engineer at [Shopify](#) (3/2021 - 7/2021)
- Enhanced the Core Development team's documentation site performance, implementing dynamic caching techniques that decreased response times by 17x.

Tech Lead at [VMware](#) (previously Pivotal, Inc) (1/2020 - 1/2021)
- Continued role, product, and duties post-acquisition by VMware, focusing on automating security updates for same-day release and ensuring platform security against CVEs.
- Implemented CI/CD for documentation, ensuring users could copy-paste code without errors, reducing support tickets by 20%.

Staff Software Engineer at [Pivotal, Inc](#) (previously Pivotal Labs) (12/2014 - 1/2020)
- Owned the software release process by implementing automation strategies, reducing delivery times from 1 month to 2 days -- "A surprising turnaround," said leadership.
- Created CI/CD pipelines that tested the platform against all IaaSes (AWS, GCP, Azure, OpenStack, and vSphere), which decreased the feedback cycle from 1 week to 45 minutes.
- Engineered platform tools for secure and consistent deployment of the CloudFoundry platform. Including security scanning for application CVEs and credential management within a shared cloud environment. (4 [patents](#))

Software Engineer at Pivotal Labs (5/2010 - 2/2014)
- Adapted to diverse projects, promoting the Pivotal Labs ethos of pair programming, test-driven development, and agile methodologies.

Software Engineer at Context Optional (8/2008 - 1/2010)
- Led development for the top ten Facebook platform applications (Bumpersticker), which achieved 8 million monthly active users. At the time, the largest Rails application in production.

Software Engineer at [Chumby](#) (2/2007 - 8/2008)
- Developed an early Rails application for content management on embedded devices, utilizing AWS S3.

Software Engineer at Soapbox Mobile (2006 - 2007)
- Developed PHP applications for handling mobile text messaging campaigns.

Skills

- **Programming Languages:** Ruby, Go, JavaScript, TypeScript, Elixir
- **Frameworks and Libraries:** Rails, React, NestJS, Next.js, Vite
- **Databases:** PostgreSQL, SQLite, MySQL
- **Cloud Services & DevOps:** AWS, GCP, CI/CD Practices
- **Development Practices:** Test-Driven Development, Pair Programming

Patents

- [US20220222096A1](#) - Container certificate injection: Allowed containers to receive dynamically created certificates for secure communication.
- [US11263297B2](#) - Dynamic insertion of variablized secrets in pipeline systems: Securing containers with credentials based on a pre-defined manifest.
- [US10235527B1](#) - Vulnerability notification for live applications allows developers to assess dependency security threats.
- [US10229251B1](#) - Library scan for live applications to ensure dependencies are up to date.

Education

University of Miami
Miami, FL

BS and MS in Computer Engineering