Justin (JT) Archie

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GitHub LinkedIn Blog

Objective

I am an experienced tech lead with broad expertise in technology and business. I am driven to create impactful products that serve social equity and deliver tangible value. Passionate about solving complex problems, I strive to enhance user experiences through thoughtful solutions while mentoring team members to grow their skills and foster better project outcomes.

Experience

Software Engineer Contractor at 33 Teams (10/2024-Present)
Migrating a financial service company between different backends with minimal downtime.

Founder at **Knowhere** (04/2024-Present)
Developed a platform enabling natural language querying of points-of-interest data to identify ideal neighborhoods for real estate purchases.

- Designed and implemented the application from the ground up using Go, React, and SQLite, prioritizing performance and scalability.
- Engineered the system for horizontal scalability to ensure a seamless and responsive user experience.

Software Engineer Contractor at Hachi (11/2023 - 2/2024)
Developed a platform aggregating social network data to curate profiles showcasing content creators' achievements.

- Led software development while partnering with the CEO to refine product requirements, contributing to a successful funding round.
- Facilitated the strategic hiring of a CTO and collaborated on the application's launch, showcasing technical leadership and rapid execution.

Senior Staff Engineer / Tech Lead at Move, Inc (9/2021 - 3/2023)
- Directed and reorganized a 10-person engineering team, mentoring 2 members to promotion and converting 3 interns into full-time contributors, boosting productivity and delivery speed.
- Designed and implemented an in-house testing framework for AWS Lambda at Edge, cutting testing time from days to seconds.

- Optimized a critical application, reducing costs by 20% and error rates by 45%, significantly improving reliability and user satisfaction.
- Retired multiple legacy applications, streamlining operations and saving over $600k annually in infrastructure costs.
- Coordinated across nine teams to execute a seamless authentication migration to Auth0, supporting over 100 million active users.

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

Tech Lead at [VMware](#) (formerly Pivotal, Inc) (1/2020 - 1/2021)
Transitioned into VMware post-acquisition, maintaining leadership of product and security-focused initiatives.

- Automated security updates for same-day releases, safeguarding the platform against CVEs and enhancing system security.
- Implemented CI/CD pipelines for documentation, enabling error-free code snippets, which reduced support tickets by 20%.

Staff Software Engineer at [Pivotal, Inc](#) (formerly Pivotal Labs) (12/2014 - 1/2020)
Led critical initiatives to streamline software delivery and enhance platform security and reliability.

- Overhauled the software release process through automation, reducing delivery times from 1 month to 2 days—praised by leadership as "a surprising turnaround."
- Developed CI/CD pipelines to test the platform across all major IaaS providers (AWS, GCP, Azure, OpenStack, and vSphere), cutting the feedback cycle from 1 week to 45 minutes.
- Engineered platform tools to ensure secure and consistent CloudFoundry deployments, including application CVE scanning and credential management for shared cloud environments. Secured [four patents](#) for innovations in this domain.

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.

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, Python
- **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