

BLAKE T. MORGAN

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228 W 71st Street, Apt 15A, New York, NY 10023

Dynamic software engineer with robust application and infrastructure skills. Embraces continuous learning for architecting scalable and reliable solutions, tailored to meet each organization's unique needs effectively.

Familiar Technologies: NodeJS, React, SQL, Kubernetes, Terraform, AWS, Argo CD, GitHub Actions

PROFESSIONAL EXPERIENCE

Whatnot

Marina del Rey, CA / Remote

Engineering Manager

July 2024 – Present

- Led the Developer Experience engineering team from its creation.
- Implemented DORA measurement and tooling to quantify the developer experience, sustaining a deployment frequency of 25+ per day.
- Focused the team's work to ensure the most impactful developer experience problems were being solved. Example: a month-long sprint to decrease CI times, bringing them from averaging 33m to 18m.

Senior Software Engineer

June 2022 – June 2024

- Overhauled Terraform configurations, reducing workspace count by 25%, cutting AWS costs by \$100k/month, and enabling independent infrastructure modifications by application engineers.
- Contributed to implementing new deployment processes using Argo CD, increasing deployment frequency from daily to continuous. Co-authored an internal Deployment Process guide to streamline deployment operations.
- Collaborated with IT Operations to deploy zero-trust networking, enhancing developer access to tools and overall security, and to harden application access by refactoring legacy IdP groups, rules, and assignments.
- Created robust on-call procedures, simplifying operational response and boosting platform reliability.
- Led diverse projects including implementing BIMBI records with a VMC to facilitate user trust, creating office digital signage, and provisioning self-hosted GitHub Actions runners, reducing iOS CI/CD costs by 83%.
- Provided mentorship to interns and non-engineering staff on their projects' infrastructure needs.
- Shared expertise externally, by authoring two posts for Whatnot's Engineering blog, and internally, being asked to give engineering- and company-wide training to new hires and current employees.

Automotive Business Solutions

Westminster, CO / Remote

Software Engineer

August 2021 – June 2022

- Developed full-stack React/NodeJS applications to streamline warranty claim and registration processes, enhancing user experience for external- and internal-users.
- Created websites, mobile wallet cards, and marketing tools, aiding clients in integrating warranty products, boosting revenue for clients and Automotive Business Solutions.
- Enhanced CI/CD efficiency and code maintainability by refining DevOps processes, implementing caching in GitHub Actions, and utilizing Docker's multi-stage builds.
- Managed a Kubernetes cluster, ensuring high availability, reliability, and visibility of services.

Brigham Young University, Office of Information Technology

Provo, UT

Software Engineer

February 2019 – August 2021

- Led the transition of the university's payment system from a Java-based monolith to a NodeJS cloud-native, distributed architecture. Ensured PCI DSS compliance and rearchitected the application to use AWS DynamoDB, moving away from Oracle databases.
- Authored and implemented tokenization for the payment system, significantly reducing PCI DSS scope and saving 95% in labor costs, alongside maintenance cost reductions.
- Led development of an online campus map using ArcGIS data, enhancing location and accessibility information.
- Spearheaded the creation of Version 2.0 university-branded, accessible web components using the Custom Elements API, reducing bundle size and load time, and aligning with BYU branding guidelines.
- Modernized legacy APIs and UIs to a contemporary stack including Docker, NodeJS, Kotlin, and Vue, and migrating them to AWS. Automated infrastructure and deployment with Terraform and GitHub Actions.

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- Developed organization-wide Terraform modules and project templates, showcasing best practices in DevOps. Aided teams in adopting these practices through hands-on assistance.
- Mentored junior student developers, guiding them in their contributions to team projects.

Brigham Young University, University Communications

Provo, UT

Web Developer

April 2017 – February 2019

- Developed the Drupal 8 version of the university's public news website, enhancing UX for both readers and content creators. Successfully migrated 11,000 nodes from the Drupal 7 to Drupal 8 platform.
- Assisted in developing a BYU-branded Drupal theme, incorporating university web components, used by various departments across campus.
- Contributed to the redesign of the BYU homepage and BYU Photo websites, bringing the branding in line with new brand guidelines and improving the UX for website visitors.
- Contributed to the development and documentation of Version 1.0 BYU-branded web components using the Custom Elements API, facilitating the creation of brand-consistent websites.
- Managed Windows and Linux servers for the department, ensuring suitable performance and security. Responsible for patching and configuring PHP, MySQL, and Nginx for Drupal support.
- Built and maintained various Drupal websites for small departments across the university, ensuring consistent performance and user satisfaction.

OTHER EXPERIENCE

Horizon Arts

Orem, UT

Executive Director

July 2019 – July 2023

- Helped start Horizon Arts, Inc., a 501(c)(3) nonprofit for youth and young adults in the marching arts. Oversaw its administration, including business registration, taxes/bookkeeping, and authoring contracts/policies.

Utah Color Guard Circuit

South Jordan, UT

Assistant Circuit Administrator, Member Board of Directors

November 2022 – July 2023

- Served as deputy head of the circuit, managing its administration: organized legacy records, reinstated state business registration, updated website, took meeting minutes, and secured internal and online IT systems.
- Collaborated with the Board in coordinating contest logistics, which included preparing venues, confirming travel arrangements for out-of-state staff, addressing concerns of circuit members, and managing IT systems.

EDUCATION AND CERTIFICATIONS

Capella University / Brigham Young University

Minneapolis, MN / Provo, UT

BS Information Technology, GPA: 3.931

September 2020

Amazon Web Services

Solutions Architect – Associate

October 2022

HashiCorp

Terraform Associate

May 2021

Mendix

Rapid Developer

June 2020

SIDE PROJECTS

Missionary Internet Transfer System

2016

- Created a PHP web application to automatically notify volunteers of reassignments via email, replacing the traditional phone-tree system.

Practice Journal

2014

- Developed and launched a Swift iOS app for musicians to track practice objectives, available on the App Store from February 2015 to February 2017.

Merit Badge Clinic Registration

2014

- Built a PHP web application to streamline class registration and clinic administration processes.