

Josh Holbrook

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Staff Software Engineer

Seasoned staff+ software engineer with over 12 years of experience in backend development, data engineering, DevOps and reliability. Expert at JavaScript, TypeScript and Python. Passionate about reliability, domain driven design, engineering leadership and full-stack ownership.

Skills

Languages: Bash, JavaScript, TypeScript, PowerShell, Python, Scala, Rust, Go

Operating Systems: Ubuntu Linux, Fedora Linux, Raspberry Pi OS, MacOS, Windows

Cloud Platforms: AWS, GCP, Azure, DigitalOcean

Databases: PostgreSQL, MySQL, SQL Server, BigQuery, RedShift, Vertica, SQLite, CouchDB, MongoDB, Redis

Web Technologies & Frameworks: CSS, HTML, Django, Express, Flask, Rails, Node.js, Nest.js, Ruby on Rails, React, Electron

Data Engineering & Data Science: Airflow, Spark, Jupyter, LookML, Kafka, Pandas, Data Warehousing, Numerical Methods, Optimization

DevOps: Ansible, Terraform, Crossplane, DataDog, New Relic, OpenTelemetry, Prometheus, Docker, GitLab CI, CircleCI,

GitHub Actions, Kubernetes, ECS, systemd, SLOs

Leadership: Consensus Building, Decision Making, Mentorship

Employment History

Modern Health, Infrastructure, Remote

July 2024 – Current

Staff Site Reliability Engineer

- Owned PostgreSQL database bootstrapping, improving database consistency and increasing service bootstrapping lead times
- Led a major upgrade of Retool from v2 to v3, including a cross-function migration effort
- Upgraded legacy RDS PostgreSQL databases from v12 to v14, avoiding costly AWS EOL support fees
- Implemented version tag based deployments and CI/CD driven configuration for ECS services, improving service reliability, debugging and developer experience
- Owned agentic AI initiatives for infrastructure as code

Procore Technologies, Embedded Site Reliability Engineering, Remote

August 2022 – January 2024

Staff Software Engineer

- Led embedded engagements to accomplish infrastructure milestones
- Became a subject matter expert and evangelist for SLOs, educating my team and driving SLO adoption
- Collaborated and drove consensus among technical leaders
- Acted as a “force multiplier”, increasing team velocity by mentoring and unblocking other engineers on my team
- Proposed the creation of a data analysis framework for operational insights, which evolved into a major multi-quarter initiative to ETL data into DataBricks using TypeScript
- Introduced story point estimating to the Embedded SRE teams, improving both estimate accuracy and consistency of effort

Eaze, Core Services, Remote

October 2021 – August 2022

Staff Engineer

- Solved difficult problems within core services as a staff level individual contributor, unblocking engineers and improving systems reliability
- Added OpenTelemetry support to the boltzmann framework, preparing Boltzmann service for migration from Honeycomb beelines
- Developed a migration toolchain and pipeline for SQL Server, improving safety and speed of .NET development

DoubleVerify, Social Integrations, New York, NY

July 2020 – October 2021

Staff Data Engineer

- Led project to develop a hybrid streaming/batch pipeline for social media advertising data, shipping an MVP in only 7 weeks and scaling to tens of millions of content items
- Developed an internal data engineering framework with a focus on first-class PyCharm support, confidence in correct code and rapid development
- Mentored and trained other engineers on the team through pair programming, documentation and videos

Gizmodo Media Group, Data Engineering, New York, NY

September 2016 – May 2019

Senior Developer

- Owned internal analytics and recommendation systems that served over 100 million users a month; overhauled legacy systems and implemented monitoring, vastly decreasing total outages and virtually eliminating undetected outages
- Designed, built and maintained ETL jobs for a rapidly growing data warehouse using Python, AWS RedShift and Looker, delivering critical business insights to the organization
- Acted as the technical lead to deliver Amazon affiliate marketing program commerce analytics involving three teams and multiple contractors, providing experiment data to optimize conversions on a front page redesign
- Architected an A/B testing API so experiments could be configured with a web interface instead of disparate scripts
- Mentored junior employees on the team

Condé Nast, Copilot API, New York, NY

February 2014 – August 2016

Software Developer

- Developed the core content API for Condé Nast's greenfield internal content management system, taking ownership of site reliability and incident management
- Wrote HATEOAS-inspired graph-capable content relationships API that supported data modeling needs of over a dozen brands using Condé Nast's greenfield internal content management system
- Developed and supported custom components for Vogue Runway's real time fashion show coverage, launching during New York Fashion Week 2015, including a custom content import interface and a data migration that re-platformed over a decade of content

Nodejitsu Inc, San Francisco, CA

July 2011 – December 2012

Head of Support

- Managed and trained other support engineers
- Monitored support channels such as IRC, email and Twitter for support requests
- Triaged and investigated live production issues with Nodejitsu software, servers and cloud providers
- Maintained, fixed bugs and made releases of modules in the Flatiron framework and Nodejitsu's open source software
- Developed and maintained internal support infrastructure and tooling

Education

Master of Science (M.S.), Mechanical Engineering

University of Alaska Fairbanks, Fairbanks, AK