

Josh Holbrook

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Employment History

Senior Software Engineer
Squarespace Inc, Finance Products

July 2019 - January 2020
New York NY

- Acted as a de facto incident commander during firefighting
- Designed and instituted an on-call process to ensure that support work was spread evenly
- Identified and implemented several improvements to development and deployment tooling and processes to improve team velocity and reduce bugs
- Spearheaded proposals to onboard billing and payments data onto a data vault reference architecture to improve velocity and decrease bugs, and to rearchitect reporting to mirror industry standard BI tools

Senior Developer
Gizmodo Media Group, Data Engineering

September 2016 - May 2019
New York NY

- Acted as the technical lead for a multi-quarter project to deliver fine-grained commerce analytics and A/B testing capabilities for Kinja's Amazon affiliate program involving three teams and multiple contractors, providing experiment data used to iterate on a front page redesign
- Architected automated A/B testing with an API and a web UI to make testing approachable to product managers in our organization
- Ported the organization's microservice framework from Scala and Play to Python and Flask to enable development of services by the data team
- Owned the internal analytics pipeline and recommendation systems that served over 100 million users a month; overhauled legacy jobs and systems and improved monitoring and alerting, vastly decreasing total outages and virtually eliminating undetected outages

Software Developer
Condé Nast, Copilot API

February 2014 - August 2016
New York NY

- Wrote a greenfield HATEOAS-inspired graph-capable relationships API for Copilot that supported the content relationship needs of over a dozen brands
- Led the data migration that replatformed over a decade of live fashion show coverage from Style.com to Vogue Runway
- Participated in on-call for Copilot API services, including during the site launch of Vogue Runway during New York fashion week in Spring 2015

Open Source Portfolio

Pyee - July 2011- Present

A Python port of the Node.js EventEmitter abstraction, with special support for asyncio coroutines, Twisted coroutines, Trio coroutines and Executors

PSudo - April 2020

A PowerShell module for ergonomic privilege escalation built on top of an open source prototype using named pipes and .NET binary serialization

ecstatic - November 2011- May 2019

A popular static file serving module for Node.js with support for Express and the standard library HTTP web server, including a CLI component, support for caching headers, CORS headers, file listing and zipped payloads with over 900 stars on GitHub

Skills

Languages

Bash, JavaScript, PowerShell, Python, Scala

Operating Systems

Arch Linux, OSX, Ubuntu Linux, Windows 10

Frameworks & Runtimes

Electron, Express, Flask, Hapi, Node.js, Play Framework, Twisted

Data Engineering & Data Science

AWS EMR, AWS Kinesis Firehose, Apache Airflow, Apache Spark, Google Sheets, Jupyter, LookML, Numerical Methods, Pandas

Databases & Search

AWS RedShift, Apache CouchDB, Apache Solr, Google BigQuery, MongoDB, MySQL, PostgreSQL

Backend Engineering

gunicorn, Microservices, NGINX, REST, RabbitMQ, Redis

DevOps & Platform Tooling

AWS CloudFormation, AWS CodeDeploy, AWS EC2, AWS Elastic Beanstalk, AWS Lambda, AWS S3, Ansible, DataDog, Docker, Jenkins, Kubernetes, NewRelic, NixOS, Puppet, Slack ChatOps, systemd, Terraform, Vagrant

Web Technologies

CSS, HTML, JSON, JQuery, Node.js, React

Education University of Alaska Fairbanks- September 2009- May 2011- Master of Science in Mechanical Engineering (gpa 3.62)