

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 through the team
- Identified and implemented several improvements to development, CI and deployment tooling and processes to improve team velocity and reduce reporting bugs
- Spearheaded proposals to onboard billing and payments data onto a data vault reference architecture and to rearchitect reporting to mirror industry standard BI tools
- Led group meetings, including Data Engineering Council and the Domain Drive Design book club
- Researched and planned a documentation epic using Jira to increase efficiency of onboarding and on-call
- Executed product research with accountants to design more accurate tax reporting
- Worked with accountants to develop bridge reports for material production reporting issues

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
- Participated in designing and building a greenfield data warehouse using Python, AWS RedShift and Looker
- Owned the internal analytics pipeline and recommendation systems – rewrote legacy Scala Spark jobs to PySpark, migrated stream processing to Kinesis Firehose and improved monitoring and alerting, decreasing total outages and virtually eliminating undetected outages

- Acted as the domain expert for collaborative filtering based recommendation systems
- Planned work for a commerce recommendations data science exploration project in Asana
- Directly mentored two junior employees

Software Developer
Condé Nast, Copilot API

February 2014 - August 2016
New York NY

- Played a pivotal role in designing and iterating on a greenfield HATEOAS-inspired graph-capable relationships API for Copilot to support the content relationship needs of over a dozen brands
- Developed a data model in a cross-team effort for the replatforming and rebranding of Style.com onto Copilot and to Vogue Runway
- Led the data migration that replatformed over a decade of live fashion show coverage from Style.com to Vogue Runway
- Designed and developed an API to import content from Google Sheets owned by Vogue producers into Copilot, allowing them to use existing workflows with a new underlying platform
- Developed deploy tooling using CodeDeploy and Hieradata to enable Condé Nast's migration from Savvis to AWS
- Participated in on-call for Copilot API services, including during the site launch of Vogue Runway during New York fashion week in Spring 2015

Software Engineer
i.TV LLC,

August 2013 - November 2013
Provo UT

- Developed backend systems with CoffeeScript, MongoDB and RabbitMQ for supporting the development of the TVTag product
- Developed new features and debugged memory leaks in internal content creation and management tools with CoffeeScript and AngularJS to enable real-time creation and curation of live content created over the course of a full TV episode

Head of Support
Nodejitsu Inc,

July 2011 - December 2012
San Francisco CA

- Managed and trained other support engineers
- Monitored support channels such as IRC, email and Twitter for support requests
- Triageed 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

Open Source Portfolio

Cackledaemon - April 2020- Present

A PowerShell module for managing a Windows 10 Emacs install that includes an installer and update wizard, functions for daemon management and a notification icon built with Windows Forms

korbenware - April 2019- Present

An ongoing effort to write a Linux desktop management suite using Python and Twisted, which includes an implementation of XDG autostart, a XDG spec compliant application launcher, an XDG menu TUI, journald log integration and a DBus RPC framework

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

PSeudo - April 2020

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

IHydra - January 2020- February 2020

A Jupyter kernel for hydra, a video synth written in JavaScript using WebGL, using code from the IJavaScript Jupyter kernel, Electron and React

twisted_ipython - June 2019

An IPython extension using Crochet that enables Twisted autoawait support in IPython and Jupyter notebooks

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)