

Josh Holbrook

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Projects

Cackledaemon ★4 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

PSeudo ★32 April 2020

A PowerShell module for privilege escalation using named pipes and .NET binary serialization

IHydra ★9 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

korbenware ★9 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

twisted_ipython ★4 June 2019

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

pyee ★211 July 2011 – Present

A Python port of the Node.js EventEmitter with special support for concurrency and async frameworks

ecstatic ★912 November 2011 – May 2019

A fully-featured static file serving middleware for Node.js

Employment History

DoubleVerify, Social Integrations Software Development July 2020 – Current
Staff Data Engineer New York NY

- Led project planning, low level architectural design and development of a hybrid streaming/batch pipeline for managing content allow lists for Facebook in-stream videos, scaling to millions of videos
- Designed project skeletons for creating new applications and libraries

Squarespace Inc, Finance Products July 2019 – January 2020
Senior Software Engineer New York NY

- Supported and maintained financial data pipelines used for ASC606 revenue recognition, cash and tax reporting and financial planning for a multi billion dollar web site host
- 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
- Designed and instituted an on-call process to ensure that support work was spread evenly

Gizmodo Media Group, Data Engineering September 2016 – May 2019
Senior Developer New York NY

- Acted as the technical lead to deliver Amazon affiliate program commerce analytics involving three teams and multiple contractors, providing experiment data used to optimize conversions on a front page redesign
- Architected an A/B testing API so experiments could be configured with a web UI instead of disparate scripts
- 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
- Ported the organization's microservice framework from Scala and Play to Python and Flask to enable development of services by the data team
- Directly mentored two junior employees
- Participated in designing and building a greenfield data warehouse using Python, AWS RedShift and Looker

Condé Nast, Copilot API
Software Developer

February 2014 – August 2016
New York NY

- Developed and supported backend services for Copilot, Condé Nast's green-fielded internal CMS
- Wrote a HATEOAS-inspired graph-capable content relationships API that supported the data modeling needs of over a dozen brands
- Worked on the team that launched Vogue Runway's real time fashion show coverage during New York Fashion Week, including leading a data migration that replatformed over a decade of content

i.TV LLC
Software Engineer

August 2013 – November 2013
Provo UT

- 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

Nodejitsu Inc
Head of Support

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

Skills

Languages: Bash, JavaScript, PowerShell, Python, Scala

Operating Systems: Arch Linux, OSX, Ubuntu Linux, Windows 10

Cloud Platforms: AWS, GCP, DigitalOcean

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

Data Engineering: Airflow, Spark, Jupyter, LookML, Kafka, Numerical Methods, Pandas

Databases: RedShift, CouchDB, Solr, BigQuery, MongoDB, MySQL, PostgreSQL, Vertica

Backend Engineering: gunicorn, Microservices, NGINX, REST, RabbitMQ, Redis

DevOps: Ansible, DataDog, Docker, Jenkins, Kubernetes, NewRelic, NixOS, Puppet, ChatOps, systemd, Terraform, Vagrant

Web Technologies: CSS, HTML, JSON, Node.js, React

Education

Master of Science, Mechanical Engineering
University of Alaska Fairbanks

September 2009 – May 2011
GPA: 3.62

Thesis: *The Determination of Anisotropic Thermal Conductivity with Thermal Needle Probe Measurement*

Bachelor of Science, Mechanical Engineering(Minor: Mathematics)
University of Alaska Fairbanks

August 2005 – May 2010
GPA: 3.67

High School Diploma
Susitna Valley Jr/Sr High School

May 2010
GPA: 3.73