

JOSH FINNIE

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INTRODUCTION

I am an experienced web developer who's specialties lie in using Python and Javascript to build large-scale, complex websites. I have 8 years of software development experience ranging from the fast-paced world of startups to working many different contracts with a small, independent team of developers. I have the expertise and ability to make your team better through my experience of getting things done efficiently and correctly.

PROFESSIONAL EXPERIENCE

PBS

Sept 2019 - Present

Senior Software Engineer

- Modernizing legacy Django applications by adding a test suite, upgrading packages, updating deployment infrastructure to enhance readability and security.
- Helping continually improve and enhance PBS.org to grow our userbase and help them access our resources as seamless as possible.
- Developing the next-generation deployment infrastructure for PBS microservices to unify how micro-applications get deployed to Amazon AWS.

Skyword (Merged with TrackMaven)

Mar 2014 - Aug 2019

Senior Software Engineer (Promoted from Software Engineer)

- Lead effort to unify both customers and users between the TrackMaven platform and the Skyword platform. Creating a unified login micro-service in Django which is syncing the two platforms together.
- Developed implementation of best practices for continual security upgrades for all repositories using Snyk, Dependabot and Github Security Hub.
- Worked as a thought leader on the migration of our base Django application to Python 3 & the current Django LTS version.
- Worked on the re-architecture of our Kubernetes infrastructure introducing better best-practices in deployment through Terraform.
- Part the senior engineering team in charge of on-call triage of problems and after-hour deployments of our multiple services.
- Lead specific forum and hack nights focusing on bettering our understanding of new backend technologies.
- Provided direct technical support to Software Maven team members and collaborative technical support to other departments within TrackMaven.
- Developed testing protocols and best practices to support a full and successful transition of the live web application from CoffeeScript to modern JavaScript.
- Helped establish and build a Quality and Infrastructure engineering team that focuses on promoting sound application infrastructure through ensuring high quality code and developing best practices across the engineering department.

Koansys, LLC.

Dec 2012 - Mar 2014

Application Developer

- Developed and deployed the Interactive Satellite Tracker (iSat), an application written in JavaScript that calculates satellite positioning in real-time based off of open-source data for Science@NASA,
- Actively maintained iSat and created application enhancements to meet the needs of Science@NASA.
- Designed and built cloud infrastructure and automated scripts using Ansible to migrate Science@NASA's Content Management System to Amazon Web Services.
- Transitioned Science@NASA's Content Management System from Django to Drupal
- Designed a front-end web application, using the Pyramid Framework and written in Angular.js, which allows the customer to interact with a custom-built Python API
- Rewrote customer web application from ASP.net and an Oracle database to Django and MySQL.
- Maintained up-to-date versions of the Django applications and MongoDB Data Base

TECHNICAL STRENGTHS

Backend Technology	Python (Django, Flask, FastAPI), Node.js, nginx, Go, Rust
Frontend Technology	Javascript (React, Vue, Gatsby), HTML5, CSS (Bootstrap)
Databases	PostgreSQL, Redis, MongoDB, MySQL, FinDB
Cloud Technologies	Amazon Web Services, Docker, Terraform, Ansible, Fabric
Concepts	Agile, SCRUM, SEO

HIGHLIGHTED PERSONAL PROJECTS

CubeCobra <https://www.cubecobra.com/>
CubeCobra is an open-source website used by the Magic the Gathering community to store their cube information. I have been helping since the early start of CubeCobra mostly consulting with the community to build strong best practices within the code base. I also help with the devops portion of the application when I can.

PushFile <https://www.npmjs.com/package/pushfile>
A command-line application written in Node.js which allows you to push a file to Amazon Web Services S3 and gives you an URL in return. This is written using the latest Javascript syntax and uses Babel to compile into ES5.

JoshFinnie.com <https://www.joshfinnie.com>
My personal blogging site written using the Gatsby.js static site generator. Takes advantage of GraphQL for data manipulation, hosted on Netlify for high-availability.

BeerLedge <https://www.beerledge.com>
A web application that allows users to track and geotag beer selections. Users can rate their selections on a 5 star scale and create comments about their experience. The application is built in Python and is self-hosted on Digital Ocean. The platform was originally developed using the Flask micro-framework and MySQL. Further development has refactored the application to use Django 1.8 and PostgreSQL.

More open-source projects can be found at <https://www.github.com/joshfinnie/>

TALKS & PRESENTATIONS

- Docker Strangelove, *Django District, etc.*, October 02, 2019
- Kubernetes Overview Offsite, *Skyword Internal Talk*, May 10, 2019
- GraphQL Lunch & Learn, *TrackMaven Internal Talk*, September 4, 2018
- Flask, Zappa, and AWS Lambda, *Django District, etc.*, January 24, 2017
- Decoupling our Angular.js App, *AngularJS DC*, October 19, 2016
- Quick and Dirty AWS Lambda in Node.js, *NodeDC*, July 21, 2016
- CoffeeScript and the Road to ES2015, *JavaScript DC*, June 23, 2016
- Dockerizing your Node App in 5 Minutes, *NodeDC*, March 17, 2016
- Command Line Applications in Node.js, *NationJS 2015*, November 13, 2015
- A DSL in Python, *Django District, etc.*, October 27, 2015
- A Pythonista's Day-O-Haskell, *TrackMaven Monthly Challenge*, September 30, 2015
- Sneaking React into Angular, *TrackMaven Monthly Challenge*, May 27, 2015
- iSat: Lightning Talk, *TrackMaven Monthly Challenge*, January 19, 2015
- Beer Search & Recs in Elastic Search, *TrackMaven Monthly Challenge*, November 12, 2014

All talks can be found at <https://www.joshfinnie.com/talks/>

EDUCATION

MongoDB University

Certificates of Continuing Education. (M101P: MongoDB for Developers, M102: MongoDB for DBAs)

Central Connecticut State University

Classes towards a Masters of Science in Geography (GIS Track).

University of Connecticut

Bachelors of Art, Economics. (Certificate in Quantitative Economics & Minor in Mathematics).