

Jade Michael Thornton

Software Engineer – The Woodlands, TX (seeking remote)

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Software engineer with 7+ years professional and open-source experience designing and implementing solutions to complex problems, with a focus on exceptional user experience. Seen as a go-to expert in Javascript, Python and SQL. Considering new remote opportunities to expand skills and experience in a company with a strong, positive culture and friendly, relaxed work environment. Especially interested in full stack or back-end engineering, and making a positive impact in reducing human suffering and/or combating climate change.

Highlighted Experience

FlightAware (Collins Aerospace); Houston, TX – Software Engineer 2

2018 – Present

Develop and maintain full-stack web applications and services with more than 13 million users, and oversee CI/CD through a Jenkins and custom pipeline. Significant member of the recruiting team.

- Engineered a new OpenLayers map system, achieving improved data quality while simultaneously reducing data usage by 50% and costs by 75%. Contributed to OpenStreetMaps on behalf of the company, especially airport information.
- Re-architected a legacy family of corporation-oriented consumer services into FlightAware Global—a flexible, user-oriented product, with streamlined product bundling, self-service account management and improved brand clarity. Overhauled the supporting PostgreSQL and SQLite schema to exceed previous performance and maintainability.
- Led a team of four in creating the FlightAware Careers site, replacing static file pages with a dynamic CMS API-powered system and a reinvented application process, completed a month ahead of schedule.
- Developed the subscription billing back-end for FlightAware Aviator, enabling asynchronous offloading to a trusted clearinghouse. In addition to generating improvements to the open source Tohil library, this project served as a valuable proof-of-concept of a Docker service defined by Nix, paving the way for transforming larger packages with complex dependencies.
- Mentored multiple new developers, helped develop skills, gain domain knowledge and continuing to provide ongoing professional and personal support.

Maverick Software Consulting; Minneapolis, MN – Software Engineering Consultant

2017 – 2018

Worked exclusively with Thomson Reuters to develop critical global financial reporting, utilizing Java, Groovy, Grails and Tableau.

- Planned and led the improvement of internal documentation wiki sites, resulting in increased security and significantly decreased maintenance cost.
- Designed and led the implementation of a D3.js web-based financial visualization framework which drastically reduced feature implementation time and technical debt.

Humphrey School of Public Affairs; Minneapolis, MN – Software Developer, Technical Support

2014 – 2017

Created custom software, course websites and faculty support material for the Technology Enhanced Learning (Academic IT) and Human Resources departments.

- Developed HR workflow software with third-party API integration, cutting processing time in half.
- Created automated asset lending system, enabling greater component retention and eliminated confusion.

Skills

Experienced

Javascript, React, Handlebars/Mustache, Node
Python, Jupyter, mypy (limited Hy experience)
SQL (Postgres, Oracle, SQLite)
TCL, Apache, Rivet
HTML, CSS, Sass/Less
Git, GitHub, GitLab
CI/CD (Jenkins, GitLab, GitHub)
OpenLayers, OpenStreetMaps, Mapbox

Rusty

Java, Spring
Clojure
Ocaml, Reason
Groovy, Grails, MVC architecture
D3.js, Chart.js
Tableau
Nix
Docker

Limited experience

Rust
Haskell
RabbitMQ
Varnish, Redis caching
Machine Learning, PyTorch
Pandas

Education

Saint Paul College; St. Paul, MN – A.S. in Computer Science

Organizations & Interests

http-server (Lead developer) – The best simple static file server for Node.js, averaging >10 million downloads every month

Bunny Buddies (Web developer, volunteer, foster home) – The premier Houston rabbit rescue organization

Hobby aerial (drone) and nature photography – View a portfolio at photos.jnthornton.net

Open source software – Creator of and contributor to dozens of FOSS projects. View highlights at jnthornton.net