

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 on the world, particularly in the aerospace field.

Highlighted Experience

FlightAware; 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 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
C (Lua, limited C++ experience)
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 (Volunteer, Foster Home) – The Houston rabbit rescue organization

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

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