

# 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.jmtornton.net

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