# Jade Michael Thornton

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**Software Engineer** – The Woodlands, TX (seeking remote)

I'm a software engineer with 7+ years experience in designing and implementing full-stack solutions to complex problems, with an emphasis on excellent user experience. I also hold an AS in Computer Science from Saint Paul College in Minnesota. I have a special interest in engineering which positively impacts people's lives. Bonus for using aerospace technology, especially drones and autonomous flight.

## Highlighted Experience

### FlightAware (Collins Aerospace); Houston, TX – *Software Engineer 2*                    *2018 – Present*

> Designed and engineered an intuitive web app which allows non-technical users to configure and activate low-power ADS-B receivers, all without touching a terminal.

> Championed for modernization within FlightAware by leading the adoption of React.js and ESLint. Pioneered the use of our open-source Tohil library and promoted the use of ubiquitous type checking. Developed a valuable PoC of a Docker service defined by Nix, paving the way for the company-wide adoption of the pairing.

> Re-engineered an OpenLayers map system to utilize compressed vector format, caching and optimized styling, which improved data quality while cutting data transmission by 50% and costs by 75%. Contributed numerous improvements back to OpenStreetMaps on behalf of FlightAware.

> Re-architected a legacy system of consumer services into a flexible, user-oriented product bundling. Overhauled the supporting PostgreSQL and SQLite schema to exceed previous performance and maintainability.

> Mentored multiple junior developers, helped develop skills and gain domain knowledge, and continued 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 financial reporting, visualization and management.

> Designed and led the implementation of a D3.js-based visualization system which drastically reduced feature implementation time and technical debt, complementing parallel development of custom reporting in Tableau.

### Humphrey School of Public Affairs; Minneapolis, MN – *Software Developer, Technical Support*    *2014 – 2017*

> Created custom HR software, course websites and faculty support material for the Technology Enhanced Learning (Academic IT) and Human Resources departments. Enabled greater component retention with the development of a new automated asset lending system, replacing a pen-and-paper method.

## Skills

| *Experienced* | *Rusty* | *Foundational experience* |
|---|---|---|
| Javascript, React.js, Handlebars.js, Node.js | Java, Spring | Rust |
| Python, Jupyter, mypy | Clojure | Haskell |
| SQL (Postgres, Oracle, SQLite) | Ocaml, Reason | RabbitMQ |
| Nix, Docker | Groovy, Grails, MVC | Varnish, Redis caching |
| HTML, CSS, Sass/Less | D3.js, Chart.js | Machine Learning, PyTorch |
| Git, GitHub, GitLab | Tableau | Pandas |
| CI/CD (Jenkins, GitLab, GitHub) | | |

## Organizations & Interests

**http-server (lead developer)** – The best simple static file server for Node.js
**Hobbyist multi-rotor drone pilot and amateur aerial photographer** – View a portfolio at photos.jmthornton.net
**Bunny Buddies (volunteer, foster home)** – The premier Houston rabbit rescue organization
**Open source software** – Creator of and contributor to dozens of FOSS projects. View highlights at jmthornton.net