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'm currently considering new remote opportunities to expand my skills and experience in a company with a positive culture and friendly work environment, with 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