TIFFANY FORKNER

SENIOR SOFTWARE ENGINEER

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SUMMARY

Dedicated Senior Software Engineer with 19+ years of experience developing web applications. Skilled in agile development, object oriented design, functional programming, automated testing, secure coding standards, refactoring legacy systems, mentoring team members, and driving technical change. Dedicated to producing quality software and supporting collaboration.

SKILLS

JavaScript	React	MongoDB	Jest	MacOS	Git
TypeScript	Next.js	PostgreSQL	React Testing Library	Linux	GitHub
Python	Redux	MySQL	Playwright	UNIX	Jira
Ruby	React Hook Forms	SQLite	Cypress	Windows	ZenHub
HTML/CSS	Node.js	AmazonRDS	Mock Service Worker	AWS	VSCode
SQL	Express	Oracle	Mocha	Docker	Confluence
Golang	Angular	Elasticsearch	Pytest	Storybook	

PROFESSIONAL EXPERIENCE

SENIOR SOFTWARE ENGINEER   Fearless Solutions, LLC | Baltimore, MD | 7/2016 – Present

Project: CMS - OneMAC Upgrade (10/2024 – present)
- Developed a **React** web application with **Lambda** functions querying **OpenSearch**.
- Improved **Vitest** unit test coverage from 51.5% to 91.6% in less than 2 months.
- Created **GitHub Actions** to automatically publish testing reports and release notes to **GitHub Pages** site.
- Stack: **React**, **TypeScript**, **Tailwind**, **AWS Lambda**, **OpenSearch**, **Vitest**, **Playwright**, **Bun**, **Mock Service Worker**, **Jekyll**

Project: CDC - Data Exchange Upload API (8/2024 – 10/2024)
- Developed an **API** endpoint in **Golang** server to determine the upload status of files being uploaded to a **tus server**.
- Developed a file upload status tracker written in **JavaScript, HTML, CSS** using a **tus client** to display the upload status.
- Developed a **tus client context** for use in **Playwright** tests to allow for testing server functions from within **Playwright** tests.
- Stack: **JavaScript**, **HTML**, **CSS**, **Golang**, **TUS**, **Playwright**, **GitHub Actions**

Project: SBA - The OII Rehoming Project (11/2023 – 8/2024)
- Led 2 teams of 2 engineers in modernization of multiple disparate legacy systems into a single application; supported team members, developed code, documented processes, ensured code quality, collaborated with cross functional team members, gathered requirements from clients, and steered technical direction.
- Improved the development process of one team by implementing **DevOps** standards including source control, code reviews, automated tests and scans, and automated deployment.
- Developed a **Lambda** function in **Python** to read messages off of an **AWS SQS** queue and process them into the system.
- Stack: **Python**, **Pytest**, **AWS Lambda**, **AWS SQS**, **Java**

Project: NFL - Football Operations Database (6/2023 – 10/2023)
- Led team of 3 engineers by architecting application using the latest industry standards, supporting team members, developing code, ensuring code quality, collaborating with cross functional team members, and steering technical direction.
- Stack: **Next.js**, **React**, **TypeScript**, **Prisma**, **PostgreSQL**, **NextAuth.js**, **Okta**, **Tailwind**, **Headless UI**, **Storybook**, **Jest**, **React Testing Library**, **Mock Service Worker**, **Playwright**

Project: CMS - MESHub (4/2023 – 11/2023)
- Led team of 5 engineers by ensuring project quality, collaborating with cross functional team members, gathering requirements, and managing the transition of the contract from the eAPD application to the new MESHub application with new team members, technologies, objectives, and users.

PROFESSIONAL EXPERIENCE *(cont.)*

Project: CMS - Electronic Advanced Planning Document (7/2020 – 4/2023)
- Led team of 5 engineers in developing a **React** web application with a **Node.js** backend; assigned work, contributed code, supported team members, ensured code quality, documented processes, participated in user research sessions, and maintained road map focus.
- Re-architected code to use **Okta** for authentication and acted as a liaison with the CMS Okta team.
- Moved large **JSON** objects from a **PostgreSQL** database to **MongoDB** to provide faster speeds, more flexibility in queries, and more efficient updates of the data.
- Stack: **React**, **Redux**, **React Hook Forms**, **Sass**, **Webpack**, **Node.js**, **Express**, **Knex**, **PostgreSQL**, **Mongoose**, **MongoDB**, **Okta**, **Cypress**, **Jest**, **React Testing Library**

Project: DIA - Intelligence Mission Data Management, Analysis, and Reporting System (7/2017 – 7/2020)
- Developed a **React** web application with **Node.js** microservices following the command-query (**CQRS**) model using **RabbitMQ** to communicate between services.
- Maintained **Ruby** script for ingesting data from 3rd party sources.
- Led the adoption of automated testing using **Cypress**, **React Testing Library**, and **Jest**.
- Stack: **React**, **Redux**, **Sass**, **Webpack**, **Node.js**, **Express**, **Java**, **RabbitMQ**, **Elasticsearch**, **Kibana**, **Mongoose**, **MongoDB**, **Ruby**, **Cypress**, **React Testing Library**, **Jest**

Project: NY Harbor Foundation - Billion Oyster Project (7/2016 – 9/2017)
- Led team of 2 in daily stand-ups, sprint planning, sprint reviews, and retrospectives.
- Developed an **Angular** web application with a **Node.js** backend.
- Stack: **Angular**, **Node.js**, **Express**, **MongoDB**, **Mocha**, **Protractor**

SENIOR SOFTWARE ENGINEER   CyberPoint International | Baltimore, MD | 2/2015 – 6/2016
- Developed an **Angular** web application with a **Node.js** backend.
- Used **Google Maps API** and **Mapbox** for **geolocating** addresses inside bounding boxes.
- Stack: **Angular**, **Node.js**, **Express**, **MongoDB**, **Google Maps API**, **Mapbox**, **Mocha**

SOFTWARE ENGINEER   Fearless Solutions, LLC | Baltimore, MD | 8/2013 – 9/2014
- Initiated complete refactoring of a single-page, 3.5k line, legacy application written in **Java**, including restructuring code into an **MVC** architecture, moving hard-coded values to a configuration database, and adding unit and integration tests using **JUnit**.
- Created an **ExtJS** web application to manage the configurations in the database, view dynamically generated time series charts, export the PNG version of the charts, and export CSV reports.
- Stack: **Java**, **JPA**, **Oracle**, **Maven**, **Spring**, **ExtJS**, **JUnit**

EARLY PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER   Harris | Annapolis Junction, MD | 7/2011 - 8/2013

SOFTWARE ENGINEER   Fearless Solutions, LLC | Baltimore, MD | 10/2010 – 7/2011

SOFTWARE ENGINEER   eDaptive Systems | Baltimore, MD | 11/2006 – 9/2007

SOFTWARE ENGINEER   Euler Hermes ACI | Owings Mills, MD | 6/2006 – 11/2006

SOFTWARE ENGINEER   Turner Broadcasting Systems | Atlanta, GA | 2/2005 – 3/2006

EDUCATION

MASTER'S DEGREE IN INFORMATION TECHNOLOGY | University of Maryland Global Campus, Online   2008 – 2010

BACHELOR'S DEGREE IN COMPUTER SCIENCE | Georgia Institute of Technology, Atlanta, GA   1999 – 2004