TAI NGUYEN, MBA, BS

www.linkedin.com/in/tai1nguyen

10447 Fair Oaks, Columbia, MD 21044

tai1nguyen@outlook.com

(301) 502-5538

Software Engineer: A commended self-starter with three years of experience developing web applications and working through all stages of the Software Development Life Cycle (SDLC). Employed full-time as a full-stack DevOps Software Engineer with a proven aptitude to learn new developmental methodologies and apply them in a professional work environment.

Areas of Expertise: Proficient in **Java**, **JavaScript**, **HTML**, **CSS**, **Node Js**, **Express Js**, **jQuery Js**, **Vue Js**, **RESTful API Design**, **Object Oriented Development (ODD)**, and **Mobile Applications Design** with a user centered approach. Scrum Master certified and able to lead multiple development teams on an agile development schedule.

Software Engineer, BridgePhase LLC   **May 2020 – Present**
Washington, DC
- Operated within an aging **Oracle SQL** database environment, investigating, reporting and manipulating heavily integrated data entities.
- Took a lead role in team development functions such as; code reviews, solutions design, and infrastructure architecture.
- Codified microservice infrastructure with **OpenShift** (**OCP**) and **Kubernetes** (**EKS**).
- Converted **OCP** templates into **Helm** charts as a part of the **EKS** migration.
- Built a new microservice using **Spring Boot**, **Lombok**.
- Created new continuous integration pipelines for microservices using Jenkins, including automated **SonarQube** scanning with git-webhooks and deployments to **EKS** and **OCP**.
- Integrated **Microsoft Teams** notifications with custom service pipeline to enable automated notifications of successful service deployments, failures and other noteworthy events.
- Acted as "**Release Captain**" ensuring that every day a successful release of the application was deployed to production.
- Root caused and triaged production defects on demand while acting as "**Release Captain**".
- Heavily involved in the onboarding process for new teammates, ensuring that their local development environment is set up and that they learn new conventions expected of the project.

Software Engineer, GP Strategies   **August 2017 – April 2020**
Columbia, MD
- Spliced functional segments from a monolithic server into microservices deployed onto **AWS** and secured with **OAuth 2** using **Spring Security**.
- Operated in one week sprints and learned how to implement a mixture of **OOD** and **Functional Programming** best practices in a professional development environment.
- Implemented system security enhancements while allowing for backwards compatibility with older dependencies.
- Practiced **Test Driven Development** as a measure to limit the possibility of erroneous logic and ensuring code quality past pre-deployment review sessions.
- Created a new sub-application within the front-end client utilizing **jQuery**, **Ajax**, **Express Js**, and **Node Js**, to retrieve and display model data.
- Designed, created, and tested multiple API endpoints following **RESTful** standards for implementation and consumption.
- Wrote unit, integration, and end-to-end tests, utilizing **Junit 5**, **Codecept Js** and **REST Assured** for both front-end clients and back-end services.

Jr Software Developer, Operational Precision Systems, LLC   **December 2015 – December 2018**
Salisbury, MD
- Provided monitoring process information in a way that the development team understood through the analysis of governmental compliance requirements for Water Providers and synthesizing it into an approachable workflow.
- Streamlined the compliance process for easier consumption, used UML Diagram designs to create a suite of holistic process flowcharts for the Federal Water Quality Standards Regulation, Subpart Y.
- Liaised with key stakeholders including Technical Architects, Executive Board & End Users to compile Business and User Requirements. Led the effort to create an entire suite of 100+ detailed wire-frame interfaces.
- Managed the interrelationship between each component into Use Cases, and built an end-to-end interactive rapid prototype of the entire application. This was issued to real-world Water Operators for initial feedback that led to iterative design improvements.

- Acted in a dual role as Project Owner and directed weekly meetings to confirm that capabilities delivered by the development team met the requirements set by stakeholders.
- Supported a smooth and productive sprint by communicating expected deliverables to stakeholders and addressing issues experienced by development teams.

Project Name: Service ADVISOR
Project Owner: John Deere
Description:
Service ADVISOR is a hybrid local and cloud based solution built to aid John Deere's dealership network and the technicians they employ. Service ADVISOR allows technicians to troubleshoot and report issues with John Deere products at the customer's location without the need for a constant internet connection. Additionally, dealers are able to assign and monitor jobs across all locations that they are responsible for. My responsibilities on this project are the ongoing maintenance and usability fixes for user reported issues, as well as the addition of new capability as needed by the client, John Deere.

Responsibilities:
- Responsible for client-side bug fixes and continual improvement.
- Added the ability for existing Service ADVISOR users to unregister and register their offline set up while also maintaining system dependencies with services that were never meant to support such a feature.
- Defined complementary components and sliced them from a monolithic service into a microservice.
- Established new system infrastructure using Amazon Web Services (**AWS**) and **Terraform**.
- Configured permissions and roles for the developmental pipeline using Amazon's Identity and Access Management (**IAM**) system.
- Created a suite of end-to-end tests using **CodeCept Js** for testing UI and system wide process improvements.
- Updated a legacy server to utilize **OAuth2** security specifications using the **Spring Boot** framework.
- Customized a legacy server for multitenant authentication under the **OAuth2** security specification.

Technologies: MongoDB, JavaScript, jQuery, Socket.IO, Express Js, Handlebar Js, Underscore Js, Node Js, AWS, Terraform, Jenkins, Java, Spring Boot, Junit5.

Project Name: Water OPS
Project Owner: Operational Precision Systems, LLC
Description:
A dual effort between OPS and MIPS, this project is designed to meet the current needs of Water Providers as a central data collection system. In addition to complimenting the EPA's CMDP, Water OPS keeps track of monitoring requirements, allows field agents to record data directly into the database using current smart devices, acts as a safeguard against potential monitoring violations, and eases the stress of reporting compliance by meeting EPA requirements. I was responsible for leading the development team in the creation and design of the data collection module to be used by Water System Samplers.

Responsibilities:
- Worked closely with key stakeholders to compile Business and User Requirements.
- Generated multiple Use Cases in support of the earlier stages of the SDLC.
- Prototyped early application layout via wire frames.
- Translated wire frames into initial project skeleton with **Webpack**, **Node Js**, and **HTML5**.
- Integrated **Vuex** as a means to maintain the application data state.
- Created reusable components such as timers, error notifications, and task menus using **Vue Js**.
- Led reviews of project capabilities at the end of each sprint.

Technologies: Vue Js 2.0, Vuex, Vue Router, JSON, HTML5, JavaScript, CSS, Node Js, Webpack.

EDUCATION
- **MBA, Perdue School of Business, University of Salisbury, MD (GPA 3.80).**   **May 2017**
- **BSc, Business Management and Information Systems, University of Salisbury, MD**   **May 2016**

HONORS / RECOGNITION
- Scrum Master Certified, Scrum Inc (2019)
- Vue Js Complete Course, Udemy (2017)
- Member, Beta Gamma Sigma (2016)
- Member, Beta Alpha Psi (2016)
- Member, Phi Kappa Phi (2016)