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Peter David Tillinghast Nelson

ABOUT/SKILLS

I am an innovative Senior Software Developer with 12 years of experience developing RESTful APIs and large-scale web applications. I am skilled in full-stack development using multiple technology stacks, including Java and LAMP. I am highly experienced in using Spring Boot and Laravel to deliver high-value projects and stable and secure features in a rapid timeframe. I also have extensive experience with frontend development and design using several popular JavaScript technologies. I approach development and design with a security-first mindset to minimize the risk of expensive data exposure. Passionate about designing elegant solutions that provide both business value and developer happiness. I have extensive experience managing projects and workflows and have been a critical contributor to implementing modern best practices for teams lacking organization. I want to use my skills to contribute to a cloud-focused team and organization.

Spring Boot	Java	JUnit	AWS
PHP	Laravel 8/9/10	MySQL	ECMAScript
Azure Container Aps	Docker	Azure	Scss/Sass
TypeScript	Vue.js (Vue 3)	Vite	PostgreSQL
Snowflake	Jest/Vitest	Python	Node.js
MySQL	Kotlin	RESTful API Development	Microsoft SQL
FastAPI	Google Cloud Platform	Vuetify	Microservices
PrimeVue			

EXPERIENCE

Competitive Sports.TV — *Principal Engineer* **September 2024 – Present**
- Manages the planning and implementation of features for a next-gen sports media livestreaming platform, working directly with the CEO and CTO to oversee project management across the company.

- Responsible for the frontend architecture implemented in Vue 3/TypeScript.
- Coordinates the deployment and configuration of containerized infrastructure in Google Cloud Platform utilizing Github Actions for CI/CD.
- Builds critical API features using Python and FastAPI for rapid development and prototyping.
- Develops and maintains application infrastructure in Google Cloud Platform.

DRB Systems/Suds Creative — *Lead Senior Software Development Engineer* **July 2022 – October 2023**

- Responsible for managing a team of 6 engineers, including significant training efforts for the team.
- Implemented previously lacking SCRUM/Agile development processes in direct coordination with the Suds Director of Project management.
- Worked with DRB to update Suds existing SCRUM workflow to use Azure DevOps to align with the larger organizational practices.
    - Leveraged DRB resources to create a new Kubernetes based deployment environment powered by Azure Container Apps. This allowed us to reduce our deployment times from weeks to minutes and adopt current industry best practices.
- Provided input on the high-level architecture of critical company initiatives ranging from a portal to support the deployment of IoT devices to carwash operators and a new CRM offering.
- Scoped and designed projects to implement a new modernized technology stack that provided an application stack based on Laravel 10 and Vue 3 for the company compared to the legacy scripts that powered day-to-day operations.
- Addressed DRB/Suds' workflow failures and provided support by identifying areas where R&D development work could optimize Suds' day-to-day operations.
- Designed and implemented a new application to replace a legacy script the company used to facilitate the tracking of coupon redemptions. Redemption "tagging" was critical to business operations and modernization was necessary to remediate severe security issues with the existing implementation.
- Coordinated the development of a Laravel-based WordPress integration to run Suds promotion campaigns alongside the new coupon distributor. Wrote an adapter layer that passed requests from wp-api into the Laravel request handler to provide a significantly more effective developer experience.
- Responsible for co-managing day-to-day support responsibilities necessary for Suds business operations by providing technical advice and management of infrastructure.

DRB Systems/Suds Creative — *Senior Software Developer* April 2022 – June 2022

- Individual contributor tasked with a project to update and modernize Suds' Coupon Distributor, a critical part of company infrastructure. Rewrote a legacy PHP procedural application into a new Laravel 9-based application.
- Provided design input for company implementation of transferring data from legacy ODBC connections into an aggregated data lakehouse solution based on Snowflake.

Nike Inc, (assigned by Randstad Technologies)— *Senior Software Engineer* May 2021 – February 2022

- Tasked to a team that supported the e-Commerce experience for Nike-sponsored athletes, teams, and institutions that utilized microservice architecture to provide order processing at a large scale.
- Deployed applications across multiple AWS services, including DynamoDB, ECS(Fargate), RDS, and S3 managed by Terraform and Jenkins.
- Provided frontend user interface via Angular 12 and worked to optimize build systems in line with current best practices. This effort involved moving the app from a gulp-based build system to the recommended Angular CLI.
- Provided strategic systems architecture advice based on current best practices and available technologies.

Pipeline Suite, Boise ID — *Senior Software Engineer* December 2020 – March 2021

- Developed next-get construction bid software in a RESTful SPA architecture. Utilizes Laravel for API service development in a multi-application environment.
- Crafted elegant and effective user interfaces and experiences as part of a company-wide modernization effort that leverages Vue.js.
- Provided strategic systems architecture advice based on current best practices and available technologies.

Clearwater Analytics, Boise ID — *Senior Software Development Engineer* June 2019 – July 2020

- Tasked to a team responsible for supporting and improving Clearwater's automatic reconciliation engine responsible for verifying data on over $3.5 trillion dollars of assets.
- Supported Clearwater's Java desktop application used by reconciliation analysts to perform manual reconciliation on accounts with complex securities.
- Developed an internal tool written in Angular, allowing the development team to have the tooling to respond to unique operational events and prevent significant overall system downtime.
- Assisted with architecting and implementing database migrations to relieve overall strain on a system processing billions of records daily.

Tango Card, Boise ID — *Full Stack Software Development Engineer*
June 2015 – April 2019

- Implemented multiple enterprise-grade user interfaces in both customer-facing and internal products with a focus on usability and following best practices such as mobile-first and reusability of components. Led the frontend implementation of two flagship products: manage.rewardsgenius.com, rewardlink.io.
    - Utilized multiple frontend frameworks: (Backbone/Angular/Vue.js) and testing frameworks (Karma/Jasmine), Jest, Casper.js.
    - Implemented the Flux pattern (Vuex) to manage global application state.
- Worked on a small, specialized team to develop a proprietary, patented fraud detection/prevention system. Utilized Docker, Zuul, and AWS ECS to implement and orchestrate a microservice-based solution and strategically updated a large legacy application incrementally by injecting a service that provided a modern UI and framework. The team was awarded a patent for a novel implementation of velocity monitoring in the digital incentives space.
- Worked on the architecture and implementation of the "Blast Rewards" bulk ordering product in both a hybrid Spring/PHP/Ember/jQuery implementation and a Vue.js/Spring Boot/Spring Batch implementation.
    - Version two of this project was also used to provide asynchronous bulk ordering capabilities to customer-facing ordering in Rewards Genius.
- Founding member of Tango Card Boise. Assisted in scaling the team from 3 engineers to an office of 25 people in Downtown Boise.

Synoptek, Boise ID — *Programmer/Analyst 1* **OCTOBER 2014 – JUNE 2015**

- Lead on coordinating an application (Java) deployment for a high-value client. Responsibilities consisted of communicating needed application changes to an offshore team in Europe in addition to configuring necessary new virtual infrastructure.
- Managed 17 WordPress-based websites for various clients. Responsibilities consisted of feature development, new site development, and maintenance.
- Managed/administered the primary shared client website server and individual customer web servers.
- Provided development support for a customer's C# application. Worked on augmenting the API and UI of a complex mortgage documentation product.

University of Puget Sound, Tacoma WA — *Web and Database Developer*
May 2013 – February 2014

- Responsible for the primary Puget Sound website and CMS, including maintenance, troubleshooting, and feature development. Primary analyst working with client departments leading up to November 2013 launch of an updated Puget Sound site (www.pugetsound.edu)
- Branded application interfaces with standard University branding (PeopleSoft, Outlook OWA) using jQuery UI.

- Developed reports generated from a PeopleSoft database for University offices. Utilized PeopleTools Query Manager to develop the reports and SQL Developer for troubleshooting and debugging.

CERTIFICATIONS

Java Backend Developer (Spring Boot) — *Hyperskill (Jetbrains Academy)*
https://hyperskill.org/certificates/3bbc6d08-332a-4445-8fed-6b963a5af67e.pdf

EDUCATION

University Of Puget Sound, Tacoma WA — *B.A. History, International Relations*

References

Available upon request