

Demetrious Wilson

- **Title:** Senior Software Engineer Full-Stack
- **Location:** Seattle, WA (Open to Remote and Hybrid)
- **LinkedIn:** <https://www.linkedin.com/in/demetriouswilson/>
- **Github:** <https://github.com/taywils>

Frontend & Web Systems

Ruby on Rails, **React**, **TypeScript**, **Java**, GraphQL

Database & Storage Systems

PostgreSQL, Redis, AWS RDS

Cloud & Data Platforms

AWS (EC2, S3, DynamoDB, Lambda, SQS, SNS, ECS, Fargate), AWS CDK, Apache Spark,

AI / ML Integration

OpenAI API, AWS Bedrock, LLM-powered content pipelines

DevOps & Delivery

Docker, GitHub Actions, CI/CD, Linux, AWS Codepipeline

Education

- **Bachelor of Science, Physics** | Washington State University

AWS Certification

- Certified Cloud Practitioner CLF-C02 | **PASS**
https://www.credly.com/badges/d8c36a5e-f675-44ce-a71e-5cfed40994c9/public_url
- Certified Developer Associate DVA-C02 | In progress

Concurrent Distributed and Parallel Computing Java Certification

- Concurrent Programming in Java, | Rice University
- <https://coursera.org/share/004ec1e2900c9754c04d01457198115f>
- Distributed Programming in Java | Rice University
- <https://coursera.org/share/66d819e077c7d015ec133bdd29df36d1>
- Parallel Programming in Java | Rice University
- <https://coursera.org/share/cb222bd7b98eb727baf86ee24223b10b>

Professional Experience:

amazon.com, (In-Office Bellevue WA)

May 2025 – Present

Software Development Engineer II (SDE II) Contractor via Collabera

Tech: Java, Scala, Apache Spark, **Typescript**, AWS CDK

- SDE Contractor with the Delivery Experience Team
- Working with the Same-Sub-day Delivery Speed Recommendations Service (SpeedRecx) team

Project #1: AWS Cloud Development Kit Devops for the Speed Recommendations team

- Currently maintaining the primary CDK provisioning and CI/CD pipeline

Project #2: Distributed Database automation

- Massive analytics query across DynamoDB (1.7 TB) and Amazon Marketplace Product Tables
- Configured a daily batch job to produce a Key-Value wide column table of around 350 GB
- Wrote distributed Apache Spark Scala to power LLM generated product titles shown to millions of customers on the “Same-Day Store”

Project #3: Operational Excellence and Resilience Automation

- Designed and implemented chaos testing for an auto-scaling Amazon ECS fleet running on AWS Fargate using AWS Fault Injection Service to simulate latency and failure scenarios
- Built a **sidecar-based fault injection framework** orchestrated through AWS Systems Manager to introduce controlled network latency during load testing.
- Developed automated stress-testing pipelines integrated into AWS CodePipeline
- Validated service performance and resiliency under load, ensuring **sub 100ms, P50, P90 and P99 latency targets**

purelinks.xyz, (Remote)

November 2024 - May 2025

Senior Software Engineer

Tech: Rails 8, Hotwire Turbo & Stimulus, Docker, Github, **Typescript**, **React**, TailwindCSS, OpenAI API

- Sole Developer
- Link Sharing and Questionnaires Form Builder
- AI Questionnaire Generation

DevOps: DockerHub, Docker, Kamal

- “Dockerized” deployment via DockerHub container using Kamal
- DNS and domain routing to SMTP via Mailgun
- DigitalOcean, Linux server management, Ansible

givecampus.com, Washington D.C (Remote)

May 2024 - November 2024

Senior Software Engineer

Tech: Rails 7, Heroku, GitHub Actions, Github, Stripe, PostgreSQL, **TypeScript**, TailwindCSS

- Senior Software Engineer with the Events Platform Team
- Developed code to launch the Affiliation based Event Ticketing Feature (tickets based on Alumni, class year or other custom/configurable affiliations)
- Engineer Lead for the design, scoping and implementation for the “RSVP No” for Complex Event Feature
- Contributed code and developed work for the Events “Custom Reporting” feature
- Developed code to launch the Event “Affiliation based Add-Ons” for Complex Events

Shift.com, San Francisco CA (Remote)

July 2021 - September 2023

Senior Software Engineer

Tech: Rails 7, **React JS**, **Typescript**, AWS (S3, Lambda, GraphQL via AppSync, DynamoDB, SQS, IAM, SNS), GitHub Actions, Docker

- Led a 5-engineer team building **high-traffic React + TypeScript interfaces** for vehicle search, pricing, and checkout flows.
- The **vehicle Pricing calculator was written as a Typescript** component and enabled customers to dynamically adjust loan payments and initial down payments based on saved settings.
- Responsible for building the B2C shopping experience (car favorites, browse, Vehicle Page, SEO) that powered the homepage and Vehicle Description Page(VDP) for Shift.com
- Sole developer responsible for moving Shift.com’s transactional emails off from Iterable.com to a custom AWS SES & AWS Lambda solution that saw a 99% reduction in dropped customer sign-in emails.

Liberty Mutual Insurance Group, Seattle WA

May 2019 - June 2021

Senior Software Engineer

Tech: Rails 6, Typescript, ReactJS, GraphQL, PostgreSQL, AWS Cloud

- Fullstack development role building internal tools for the Surety Division
- Utilized AWS services like EC2, S3, Lambda, API Gateway, and RDS.
- Built **internal operational web applications** used by the Surety division to manage underwriting and reporting workflows.
- Delivered **React-based data tools** integrated with AWS-hosted backend services.

Varsity Tutors, Seattle WA

July 2018 – January 2019

Senior Software Engineer

Tech: Rails 5, MySQL, ReactJS

- Worked on the client-facing tutor web streaming backend to connect students with tutors.
- Primary developer for the tutor rating system.
- Integrated various web technologies including ReactJS, JavaScript, HTML, and CSS.

Fox Commerce, Seattle WA

November 2016 - September 2017

Senior Software Engineer

Tech: Rails 5, MySQL, **ReactJS** with D3 DataVisualization

- Developed a “Dataviz” charts and display web interface for products purchased by users in **ReactJS**
- Built a backend product recommendation service in Go that integrated with Neo4J
- Deployed frontend E-Commerce sites written in React for various small business customers

- Used a proprietary API <https://rundexter.com/> to build an SMS-powered version of “One-Click” that allowed customers with saved shipping and credit card payment information to instantly place orders through a chatbot.

Stella&Dot, Seattle WA -

July 2013 - October 2016 and September 2017 – January 2018

Software Engineer, iOS Developer

Tech: Magento, PHP 5, Javascript, jQuery, MySQL, Swift, iOS Mobile

- PHP Zend Framework development for Stella&Dot Backend to integrate with Magento
- Launched and developed the mobile app “Dottie” for Stella&Dot starting with Swift 1.0
- Developed back-end web services using PHP, MySQL, and JavaScript the front-end interface using HTML, and CSS.
- Continued Swift iOS development for “Dottie” up through Swift 4, integrated with Ruby on Rails backend
- Wrote optimized Ruby on Rails backend code to serve faster JSON API to reduce download times for mobile App

Zulily Seattle WA

August 2011 - October 2012

Junior Software Engineer

- Software Engineer on the Supply Chain Logistics/Product Fulfillment Team
- Developed internal reporting for the Logistics team's product tracking using PHP and jQuery.
- C#, Windows Server 2008, SQL Server for Warehouse pick pack and ship product tracking software.