

NATHAN D. BRENTON

FULL-STACK SOFTWARE ENGINEER | PYTHON, REACT & TYPESCRIPT | LINUX

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SUMMARY

Software engineer with an enterprise systems engineering background, building full-stack applications with Python, FastAPI, React, TypeScript, PostgreSQL, REST APIs, Docker, and automated testing. Combines application development with professional Linux platform, deployment, troubleshooting, monitoring, and production-reliability experience.

SKILLS

PROGRAMMING & SCRIPTING: Python, TypeScript, JavaScript, Bash

FRONTEND DEVELOPMENT: React, Vite, CSS, HTML

BACKEND & APIS: FastAPI, REST APIs, Node.js

DATABASES & DATA: PostgreSQL, SQLAlchemy, Alembic

TESTING & QUALITY: Playwright, pytest, Vitest

DEVOPS & TOOLING: Docker, containerized services, Git

CLOUD & INFRASTRUCTURE: AWS

SYSTEMS & INFRASTRUCTURE: Linux, RHEL 9

EXPERIENCE

System Engineer I

Roth Staffing Companies, L.P. — Pacific Life Insurance

Feb 2024 – Mar 2026

Newport Beach, CA

- Automated remote Tomcat/TomEE deployments and browser-based developer log access, reducing manual release and troubleshooting steps.
- Validated supported JDK, Tomcat/TomEE, and Java middleware versions for application teams during an enterprise AWS migration.
- Assisted developers with virtual hosts, Tomcat deployments, connection pools, and application log analysis.

Jr. Deskside Technician

Randstad Technologies, LLC — Pacific Life Insurance

Aug 2022 – Jan 2024

Newport Beach, CA

- Automated hardware and software validation checks with PowerShell to improve fulfillment consistency.
- Troubleshoot application, access, device, and network incidents using ServiceNow, Splunk, SCCM/MECM, and Active Directory.

PROJECTS

SignalStack AI News Intelligence Platform

github.com/nathanbrenton/signalstack.git

- Developed a FastAPI/PostgreSQL AI retrieval platform using sentence-transformer embeddings, hybrid search, and scikit-learn classification.
- Built weak-label training data and trained scikit-learn Naive Bayes classifiers using TF-IDF features, persisting model artifacts.

Hiplingo Media Platform / Metadata Editor

hiplingo.com

- Developed a private React/TypeScript Metadata Editor with a Node/TypeScript filesystem service, metadata inheritance, validation, and guarded publication workflows.
- Built Hiplingo, a React/TypeScript/Vite music app with persistent HLS playback, responsive artist/release browsing, and shared media-player components.

Century Solar Business Operations Platform

- Developed a React/TypeScript, FastAPI, and PostgreSQL business operations platform with complex workflows and automated test coverage.
- Built pytest, Vitest, and Playwright coverage for backend, frontend, integration, browser, and workflow validation.

EDUCATION

M.S. Software Engineering — AI Engineering, Western Governors University

Completed Apr 2026

B.S. Cybersecurity and Information Assurance, Western Governors University

Completed Oct 2023

Front-End Web Developer Nanodegree, Udacity

Completed May 2019

CERTIFICATIONS

CompTIA CySA+ ce Expires Aug 2029

CompTIA Project+ Issued Jan 2022