



Patrick
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Summary

Staff engineer and tech lead with diverse programming, database, AI/LLM, and cloud skill sets. Contributions have led to measurable revenue growth, including a quadrupling in product contract values, through system improvements that exceed client expectations. Substantial experience in enterprise software engineering for financial markets, accounting, and education.

Skills

- PHP - 9 years
- JavaScript - 9 years
- TypeScript - 4 years
- Python - 3 years
- React - 3 years
- C# - 2 years
- Java - 2 years
- Ruby - 1 year
- AWS - 5 years
- Docker - 4 years
- Google Cloud - 1 year
- PostgreSQL - 9 years
- SQL Server - 9 years
- MySQL - 9 years
- MongoDB - 3 years

Education and Training

Bachelor of Arts

Florida International University
Miami, Florida,
Computer Science, 07/2020

Professional Experience

Beacon by Clearwater Analytics

Core and AI Engineer | Tokyo, Japan 08/2022 to Current

- Design and implement a cloud-agnostic LLM and agent framework to provide a controlled environment for AI use, with task visualization, permission controls, and telemetry logging.
- Design and implement a graph-based task orchestration framework (similar to Apache Airflow) to facilitate the efficient pricing of financial instruments and calculating risk.
- Maintain and enhance automation tooling, such as automated provisioning of all necessary AWS/Azure resources to onboard clients, and automated MongoDB upgrades.
- Use Python, MongoDB, TypeScript, React, Terraform, AWS, and Azure in day-to-day engineering.
- Directly mentor summer interns for three-month periods, adopting their projects into our internal workflows.

Focus School Software, LLC

Senior Staff Engineer | St. Petersburg, United States 10/2016 to 08/2022

- Lead firm-wide initiatives to introduce client-facing AI features and AI-powered internal workflows, resulting in bid selection from clients, and a reduction in ticket support times.
- Oversee all code implementation in enterprise resource planning and special student services systems used nationwide, meeting both state and federal reporting requirements.
- Use PHP, Laravel, PostgreSQL, SQL Server, JavaScript, AWS, and C# in day-to-day engineering.
- Improve the ERP package to a feature-rich state, resulting in the firm quadrupling its selling price.
- Manage a fully remote team of four engineers and architects across global time zones.

Languages

English:

Native/ Bilingual

Japanese:

Limited