DEV WATTS

Full-Stack Software Engineer | AI Products | Python, TypeScript/React | Cloud & CI/CD
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Summary

Full-Stack Software Engineer and Co-Founder/CTO with 4+ years of experience building AI products, distributed SaaS platforms, and real-time systems. Hands-on across Python, TypeScript/React, Go, and Node.js, with experience developing voice-AI pipelines, SDKs, event-driven services, and cloud-native infrastructure. Skilled in system design, security, testing, CI/CD, and owning products from architecture through production deployment

Experience

Nozle.dev — link

Co-founder & CTO — 05/2026 - Present

- Co-founded and architected an AI-native monetization platform using Python, TypeScript/React, Go, and Ruby on Rails
- Built typed Python and Node.js SDKs for usage tracking, credits, subscriptions, entitlements, margin analytics, and LLM cost capture
- Developed React interfaces for pricing, checkout, credit balances, analytics, feature gating, and AI-assisted onboarding
- Designed event-driven metering and credit infrastructure using PostgreSQL, ClickHouse, Redis, and Kafka
- Engineered Stripe billing workflows covering upgrades, invoicing, cancellations, bulk checkout, quotes, order forms, and customer migrations
- Led secure production deployments across Azure AKS and GCP/GKE using Kubernetes, Helm, GitHub Actions, automated testing, and CI/CD

Pullse AI — link

Founding Engineer — 04/2025 - 04/2026

- Built and deployed scalable CI/CD pipelines across all services, including chat widget, dashboard, and backend workers
- Implemented a global CDN with Cloudflare, significantly improving widget performance and asset delivery
- Architected the embeddable chat widget backend with real-time messaging, secure uploads, and dynamic theming - fully managed from a self-serve dashboard
- Designed a production-ready AWS RDS setup and led secure migration with zero downtime
- Developed a modular workflow automation engine with a visual editor (React Flow) and Temporal backend integration, supporting loop detection and custom node types
- Owned infrastructure improvements and backend reliability across critical microservices
- Designed scalable microservices and backend systems for real-time messaging and workflow automation, focusing on modularity, resilience, and observability

Wendor Innovations Pvt Ltd — link

Gurugram

Lead Software Engineer — 07/2022 - 04/2025

- Consolidated board-specific vending machine codebases into a unified factory-pattern architecture, reducing new hardware integration time by 60% and simplifying ongoing maintenance.
- Led the migration of backend services from PHP to NestJS and TypeScript, improving reliability and reducing feature-development time by approximately 50%.
- Optimized PostgreSQL queries, indexes, and data models, reducing query latency by 40% and improving application load times.
- Engineered RESTful and WebSocket APIs to power IoT-based vending machine integrations, enabling seamless hardware-software interaction and helping drive annual recurring revenue growth by over ₱10 million.
- Architected a standardized integration layer using REST/WebSocket APIs and factory-pattern adapters, reducing hardware integration time by 60%, expanding supported machine and firmware variants, and enabling ₱10M+ in annual recurring revenue from new deployments.
- Designed a custom SSP protocol handler for vending machines, enhancing compatibility with payment systems like cash exchangers and coin changers, unlocking new revenue streams.
- Developed and deployed scalable cloud services, maintaining 99.9% production uptime.

Superceuticals Pvt Ltd — link

Gurugram

Software Developer Intern — 06/2022 - 08/2022

- Project Leader: Development of a Global Pathologist Reporting Panel
- Built and deployed scalable backend solutions using Node.js and Express for internal applications
- Automated deployment pipelines with Docker and Jenkins, reducing deployment time by 30%
- Conducted API integrations for third-party services, improving operational efficiency

Putatoe Technologies Pvt Ltd

Gurugram

Software Developer Intern — 06/2021 - 08/2021

- Developed backend microservices in Python for data aggregation and analytics.
- Integrated PostgreSQL and MongoDB, reducing query response times by 20% through optimized data modeling and access patterns.
- Wrote test cases using Jest to ensure a robust and error-free codebase.

Projects

Echo Voice Proxy — 03/2026

Independent Voice AI Project

- Reverse-engineered the Alexa Voice Service protocol on an Echo Dot and built a Python HTTP/2 and TLS proxy that replaces the default cloud voice pipeline with configurable local and cloud backends
- Developed a real-time speech pipeline combining voice activity detection, Whisper/Azure Speech, local and hosted LLMs, and Kokoro/OpenAI text-to-speech
- Implemented server-initiated speech, persistent HTTP/2 communication, MCP tool calling, conversational memory, workflow automation, and integrations with Spotify and Telegram

Education

Delhi Public School, Mathura Road — Delhi

PCM with Computer Science — 2018 - 2019

K.R. Mangalam University — Delhi

Bachelor of Engineering, Major in Computer Science — 2019 - 2023

Skills

Programming Languages: Python · TypeScript · JavaScript · Go · Ruby · Java · SQL

Frontend: React · Next.js · Redux · React Flow

Backend: Node.js · NestJS · Express.js · Ruby on Rails · Spring Boot · GraphQL · REST APIs · WebSockets

Data & Messaging: PostgreSQL · MongoDB · ClickHouse · Redis · Kafka

Cloud & DevOps: AWS · Azure AKS · GCP/GKE · Docker · Kubernetes · Helm · GitHub Actions · CI/CD · Cloudflare

AI & Platform:
OpenAI and Anthropic APIs · LLM streaming · RAG · usage metering · Stripe billing · entitlements · event-driven systems · microservices

Leadership & Collaboration:
Technical Leadership · Engineering Mentorship · Architecture Reviews · Code Reviews · Sprint Planning · Agile Delivery · Cross-Functional Collaboration · Stakeholder Communication · Product Ownership · Incident Management

ADDITIONAL INFORMATION

Second Prize (Globally), Alibaba Low Code Development Contest | April 2022 (Article)

04/2022

It was awarded for developing "Smile Foundation," an innovative NGO website using low-code tools, recognized for its impact and creativity

Amazon Vulnerability Research Program | Bug Bounty Recipient | July 2026

07/2026

Received a bug bounty from Amazon for responsibly disclosing a validated security vulnerability affecting its consumer-device ecosystem and providing a reproducible proof of concept and impact analysis