Allan Dawson Joshua Jeyakumar

Senior Software Engineer | Backend and Full Stack

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Professional summary

Senior software engineer and hands-on technical lead with 10+ years building backend services, web applications and data pipelines using Python, TypeScript, .NET and AWS. Led teams of up to ten developers.

Technical skills

Languages Python, TypeScript, JavaScript, C#, SQL

Full stack .NET, Node.js, NestJS, FastAPI, Flask, Django, Angular, React, Next.js, REST APIs

Data PostgreSQL, DB2, Airflow, RabbitMQ, pandas, Prisma, SQLAlchemy, Kafka

Cloud and delivery AWS ECS, ECR, Cognito, API Gateway, Secrets Manager, CloudWatch, X-Ray, Docker, Kubernetes, GitLab CI/CD, Auth0, Git

Testing and AI Playwright, pytest, TDD, Claude Code, OpenAI Codex, GitHub Copilot

Professional experience

Levio Consulting February 2019 - Present
Senior Full Stack Developer / Technical Lead

Viewbid | Technical Lead / Senior Full Stack Developer

- Led a team of up to ten developers, working with the project manager and senior system architect. Prioritized work, explained dependencies and resolved blockers across time zones while remaining hands-on.
- Built Angular and NestJS/TypeScript features with Prisma and Auth0, including admin impersonation with role-based access, revocable tokens and session audit records.
- Built a configurable Node.js CLI adopted across the team to create test auctions and lots with images through application APIs, replacing repetitive UI setup.
- Fixed a production auction-creation memory leak by analysing heap snapshots and tracing retained data to the Sentry integration. Validated the fix with sustained lot creation before deployment.
- Mentored developers through code reviews and pair programming. Established branching standards and a scheduled GitLab pipeline for weekly Playwright end-to-end and unit tests.
- Used Claude Code to investigate browser behaviour, write test specifications, and develop and refine Playwright tests. Used separate implementation and review agents, validation gates, cross-repository API-contract checks and OpenAI Codex for development.

Assured Guaranty | Senior Full Stack Developer

- Containerized on-premises .NET applications with Docker and migrated workloads to AWS ECS, with container images stored in ECR.
- Replaced Windows Integrated Authentication with Amazon Cognito for single sign-on and OAuth 2.0 flows.
- Automated OpenAPI generation at build time for REST API deployments to AWS API Gateway.
- Published a reusable NuGet package for .NET applications to retrieve database credentials from AWS Secrets Manager.

Levio Consulting continued

Selected earlier client engagements

- Built Corporate America's account-balance simulation proof of concept with FastAPI, Angular and pandas. Validated business logic against historical data and randomized what-if scenarios. Containerized the stack with Docker Compose.
- Led IBM's Expense Insight proof of concept by containerizing Python analytics modules with Docker and Kubernetes and building Airflow workflows to ingest, validate and monitor expense data.
- Built a reusable Python ETL package and Airflow pipelines for IBM transactional due diligence. Added risk scoring, a reusable QA framework with Slack alerts, GitHub OAuth SSO, and unit and integration tests using pytest.
- Built DB2 stored procedures, REST APIs and Angular features for IBM contract management. Managed schema migrations with Liquibase.
- Led IBM product-review analytics work using Python scrapers, Flask APIs and Airflow. Built Flask services and Scrapy crawlers for a separate patent-process automation engagement.

Wren Labs July 2017 - January 2019
Full Stack Developer

- Built an internal time-tracking and client-management dashboard, Python/Django services and PostgreSQL-backed REST APIs for web and mobile clients.
- Developed Ionic/Cordova Android and iOS apps to configure IoT devices over Bluetooth and send sensor readings to cloud services.
- Built an Electron desktop application and web dashboards for real-time device monitoring and IoT telemetry.

Ambience Data September 2015 - July 2017
Full Stack Developer

- Developed Python/Django websites, PostgreSQL-backed services and dashboards for real-time sensor data.
- Built Ionic/Cordova mobile apps connecting monitoring devices to backend APIs, and RabbitMQ/Python services to ingest streaming sensor data.
- Trained and onboarded developers in Django and Python practices.

Education

Diploma in Computer Systems Technician 2014 - 2015
Software Engineering | Sheridan College, Ontario, Canada

Bachelor of Engineering 2008 - 2012
Computer Science and Engineering | Anna University, India

Professional development

Claude Code in Action | Anthropic | March 2026
AWS Partner Generative AI Essentials | May 2026