Aadhav Kandasamy Suresh

Applied AI Engineer · Production LLM Systems · Python Backend

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Summary

Backend engineer with 5+ years building production Python services, APIs, and event-driven systems, including machine learning and computer vision in production. At Joyn I built OCR that auto-scores match screenshots and ML-assisted chat moderation that flags rule violations at scale, and I rewrote a bot serving 190,000 Discord servers onto a webhook-first architecture, cutting memory use from 22 GB to under 100 MB. Stack: Python, PostgreSQL, Redis, RabbitMQ, Docker, CI/CD. Based in Dubai. SAP Certified in Generative AI Development and Joule Studio Development (AI agents and skills on SAP Business AI Platform).

Skills

Languages	Python, SQL, TypeScript/JavaScript, Go
AI & LLM	LangChain, LangGraph, RAG, embeddings, semantic retrieval, prompt engineering, tool calling, LLM evaluation, pgvector/Qdrant
Machine Learning	pandas, NumPy, scikit-learn, TensorFlow/Keras, neural networks, decision trees and ensembles, feature engineering, model comparison, evaluation (ROC-AUC, F1, RMSE), cross-validation, OCR / computer vision
Backend & APIs	FastAPI, Django, REST, GraphQL, OAuth2, webhooks, async programming
Data & Messaging	PostgreSQL, Redis, RabbitMQ, SQLite, query optimization, data pipelines
Cloud & DevOps	AWS, Docker, GitHub Actions, GitLab CI/CD, Linux, Kubernetes
Testing	Pytest, integration testing, end-to-end testing
Enterprise AI	SAP Joule Studio (Joule agents and skills), SAP Generative AI Hub, SAP AI Core, SAP AI Launchpad, SAP Business AI Platform (formerly BTP), responsible AI

Experience

Joyn (formerly Tournament Kings) — *Remote*

Backend Engineer — *Apr. 2020 - Present*

- Refactored the legacy Tourney Bot codebase into a modular framework, reducing API errors by 30% and improving processing efficiency by 25%.
- Built and maintained a portfolio of production Discord bots deployed across 240,000+ servers, including a tournament platform (roughly 75,000 tournaments hosted), a Zendesk-style in-Discord support and ticketing system, and an emote-management tool.
- Built a computer-vision OCR pipeline that auto-scored player-submitted match screenshots, replacing the manual admin scoring step in Tourney Bot's tournament flow.
- Built ML-assisted chat moderation that flagged rule violations and toxic content, reducing the number of moderators needed to cover each timezone.
- Rewrote ZeroTwo, an acquired Discord bot serving roughly 190,000 servers, onto a webhook-first architecture that cut memory use from 22 GB to under 100 MB, with a RabbitMQ-backed microservice bridging webhook services and Discord Gateway events to preserve full event coverage.
- Turned requirements from Riot Games, Twitch Rivals, and white-label partners into production integrations and automated workflows.
- Led incident triage across engineering, partnerships, and support teams, reducing unresolved tickets by 40%.

Joyn (formerly Tournament Kings) — *Remote*

Technical Support Engineer & Community Administrator — *Dec. 2019 - Apr. 2020*

- Resolved 50+ tier-2/3 tickets per week at a 95% satisfaction rate. Coverage spanned bot functionality, accounts, and community tooling.
- Reproduced bugs, documented root causes, and escalated issues through YouTrack, improving turnaround between customer reports and fixes.

Certificates

Nov. 2026	**SAP Certified - Joule Studio Developer**, SAP	*Verify credential*
Aug. 2026	**Machine Learning Specialization**, DeepLearning.AI & Stanford University	*Verify credential*
Aug. 2026	**Unsupervised Learning, Recommenders, Reinforcement Learning**, DeepLearning.AI & Stanford University	*Verify credential*
Jul. 2026	**Advanced Learning Algorithms**, DeepLearning.AI & Stanford University	*Verify credential*
Jun. 2026	**Supervised Machine Learning: Regression and Classification**, DeepLearning.AI & Stanford University	*Verify credential*
Mar. 2026	**SAP Certified Associate - SAP Generative AI Developer**, SAP	*Verify credential*
Mar. 2026	**Introduction to LangChain (Python)**, LangChain Academy	*Verify credential*

Education

Vellore Institute of Technology (VIT) *Vellore, India*

B.Tech. in Computer Science and Engineering *Jul. 2019 - Jun. 2023*

- Relevant coursework: Artificial Intelligence, Machine Learning, Data Mining and Analytics, Database Systems, Data Structures and Algorithms, Design and Analysis of Algorithms, Operating Systems, Computer Networks, Cloud Computing.