

Daniel | Python Developer

SUMMARY

He is a Senior Software Engineer and Automation Architect with 10 years of experience delivering high-impact AI and automation solutions across industries such as banking, fintech, e-commerce, and healthcare. With a strong fullstack background (70% backend, 30% frontend), he specializes in developing both mobile and web applications using a robust technical stack.

His core backend expertise includes Java and Python (8–9 years), along with frameworks such as Spring Boot, Django, Flask, FastAPI, and Langchain's full ecosystem (LangGraph, LangSmith, LangFuse, Mistral 7B). He also has experience with PHP, Flutter, Kotlin, and Swift. On the frontend, he works with TypeScript, Angular, and React (including React Hooks and Material UI) with over 8 years of experience.

He is highly skilled in AI development, particularly in LLM implementation, fine-tuning, and RAG architecture using vector databases. He has hands-on experience with NLP, machine learning operations, and optimizing document processing systems to reduce hallucinations in critical workflows. He also has experience with Databricks, enhancing his capabilities in data engineering and scalable AI solutions.

His database expertise spans Cassandra, MongoDB, Redis, MySQL, PostgreSQL, SQL Server, Neo4j, Oracle, and LangGraph. In DevOps, he is proficient with CI/CD tools like GitHub Actions and Jenkins, and has deep experience in cloud platforms including AWS (8–9 years, using EC2, S3, Lambda, SageMaker, CloudWatch, EKS, Terraform, etc.), as well as Azure (last 2 years) and some exposure to GCP.

He holds a Bachelor's degree in Industrial Design and Computer/Data Science, and certifications in Oracle, Java, and AWS Practitioner.

He is also experienced with Kubernetes, Terraform, JUnit, PyTest, and automation practices across scalable microservices architectures.

CORE SKILLS

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|----------------------|--------------------------------|--------------|
| • Python 3.10 | • Document chunking strategies | • OCR |
| • LLM fine-tuning | • Hallucination reduction | • AWS Lambda |
| • RAG implementation | • ML evaluation frameworks | • S3 |
| • NLP | • BERT | • EC2 |
| • Databricks | • spaCy | • RDS |
| | | • GCP |

- Azure
- Kubernetes
- Docker
- Terraform
- Jenkins
- CI/CD
- Java 17
- JavaScript
- TypeScript
- Spring Boot 3
- Django 4
- FastAPI
- C#
- .NET Core
- React 18
- Angular 16
- Redux
- Material-UI
- PostgreSQL
- MySQL
- MongoDB
- Redis
- Apache Kafka
- LangChain
- Agno
- Hugging Face
- AI frameworks

WORK HISTORY

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Senior Full-Stack Developer & Automation Architect

2021 - 2024

- Led implementation of RAG architecture for financial fraud detection, reducing hallucinations by 42% while maintaining sub-50ms response times critical for real-time payment processing.
- Fine-tuned Mistral-7B model using QLoRA with PEFT library on 50,000 labeled financial transactions, reducing AWS Lambda costs by 40% while improving fraud detection accuracy by 28%.
- Developed comprehensive LLM evaluation framework with automated ground-truth verification against regulatory databases, ensuring compliance with FINRA and PCI-DSS standards.
- Optimized document chunking strategies for financial regulatory documents, balancing retrieval precision with context preservation for improved fraud analysis.
- Mentored Agile teams in LLM implementation best practices, fostering a culture of innovation and continuous improvement.
- Skills: Java, Python, JavaScript, TypeScript, Spring Boot, Django, React, Angular, AWS, GCP, Azure, Docker, ETL, Airflow, Redis, OAuth2, JWT, Kotlin, Databricks

MediaPlus Digital Pte Ltd

Tech Lead - Automation & AI

2017 - 2021

- Directed migration from monolith to Java microservices, achieving 30% improvement in transaction processing speed and higher conversion rates.

- Built AI-powered recommendation and chatbot systems using Python with spaCy, BERT, and RAG, automating 10K daily customer interactions and reducing service tickets by 40%.
- Implemented multi-dimensional evaluation framework for AI solutions, balancing technical performance metrics with business impact measurements.
- Enhanced system security through OAuth2/JWT authentication for Angular portals, ensuring data integrity and regulatory compliance.
- **Skills:** Python, PHP to Java migration, AI Solutions, AWS, GCP, PostgreSQL, Kotlin

Suffescom Solutions Inc

Web Development Specialist - Automation Projects

2012 - 2017

- Scaled Django-based patient portal to support 500K MAU via Redis caching and load balancing, reducing data entry errors by 65%.
- Integrated HL7/FHIR-compliant Java module, automating healthcare document workflows while ensuring regulatory compliance.
- Implemented document chunking strategies for medical records, balancing semantic cohesion with retrieval efficiency.
- **Skills:** Redis, Migration from monolithic to microservice architecture, RESTful APIs, Web Application Development, Laravel, Kotlin

EDUCATION

Nanyang Technological University

MSc in Computer Science

2010 - 2012

CERTIFICATIONS

AWS Certified Developer

AWS

2024

Oracle Certified Java SE 11 Developer

Oracle

2023

Docker Certified Associate

Docker

2024

Scrum Master (PSM I)

Scrum.org

LANGUAGES

Portuguese: Native

English: C1/C2