Ilyass Salout
Beginner Python Developer · LLM & RAG · AI Automation · Full-Stack Web

SUMMARY

• Built LLM and RAG features (prompt engineering, structured JSON outputs, multi-model fallback), including a RAG memory layer for continuous, personalized AI sessions.

• Shipped 8+ full-stack, user-facing features in a 4-month AI platform internship using FastAPI, Next.js, React, and TypeScript.

• Automated tasks and built web scrapers in Python (Selenium, BeautifulSoup, PyAutoGUI) in fintech environments.

• Strong in backend, REST APIs, and cloud (Azure, GCP, Firebase), with CI/CD and Agile.

• Master's in Computer Engineering & Big Data; game projects built in Unity and Unreal Engine 5.

TECHNICAL SKILLS

Main Technical Skills	Python (3 yr.), FastAPI, Flask, React, Ext JS
Programming Languages	Java, JavaScript, Python (3 yr.), TypeScript
Python Libraries and Tools	Beautiful Soup, NumPy
C++ Libraries and Tools	C/C++/C#
Mobile Frameworks and Libraries	Crashlytics
JavaScript Frameworks	Ext JS, Node.js, React
Python Frameworks	FastAPI, Flask
AI & Machine Learning	NumPy, PandasAI, RAG
Data Analysis and Visualization Technologies	Data Scraping, PandasAI
Databases & Management Systems / ORM	MySQL, PL/SQL, SQL, Supabase
UI Frameworks, Libraries, and Browsers	CSS, HTML, Tailwind CSS
Cloud Platforms, Services & Computing	AWS, Azure, GCP

Azure Cloud Services	Azure Blueprints
Methodologies, Paradigms and Patterns	Agile, OOP
SDK / API and Integrations	API, FastAPI, RESTful API
Deployment, CI/CD & Administration	CI/CD
Version Control	Git
Platforms	RPA
QA, Test Automation, Security	Selenium (1 yr.)
Other Technical Skills	PyAutoGUI, Unreal Engine

WORK EXPERIENCE

Software Engineering Intern - NexTraction (AI platform for startup idea validation)

Duration: Feb 2026 – May 2026
Summary:

- NexTraction is an AI platform that helps founders validate their startup ideas by providing AI-powered tools and features
- The project involved building user-facing features and improvements across the full stack, including LLM-powered AI personas and voice pitch simulation

Responsibilities:

- Developed and shipped 8+ user-facing features across backend and frontend.
- Implemented LLM-powered multi-persona AI panel and voice pitch simulator with prompt design and speech integration.
- Built a Retrieval-Augmented Generation (RAG) memory layer to maintain continuous and personalized AI conversations.
- Refined frontend features including project dashboard, AI persona panel/chat, and PDF report export.
- Fixed UI/UX issues and addressed code-review feedback.

Technologies: Python, FastAPI, TypeScript, Next.js, React, Tailwind CSS, Microsoft Azure, Google Cloud Platform (GCP), Firebase, Supabase, Git, LLMs, Retrieval-Augmented Generation (RAG), REST APIs

Bilingual Customer Service Advisor - Xceed

Duration: Jul 2024 – Dec 2024
Summary: Provided bilingual customer service support handling inbound calls in French and English, ensuring high-quality customer interactions and meeting performance targets.
Responsibilities:

- Managed over 60 daily inbound calls in French and English.
- Consistently met performance targets and maintained customer satisfaction.

Support Technician - Hightech Payment Systems (HPS) (PowerCard payment-system transaction analysis and automation)

Duration: Oct 2023 – Apr 2024
Summary:

- Supported the PowerCard payment system by analyzing transaction data to identify processing issues and bottlenecks in a PCI-DSS-compliant environment
- Automated routine monitoring tasks to improve operational efficiency

Responsibilities:

- Analyzed payment transaction data using PL/SQL on Unix/Linux systems.
- Investigated processing issues and bottlenecks in the payment system.
- Developed scripts in C and Java to automate routine monitoring tasks and reduce manual checks.

Technologies: PowerCard, PL/SQL, C, Java, Unix/Linux, electronic payments (monétique)

Software Developer Intern - Hightech Payment Systems (HPS) (Full-stack internal web applications and automation)

Duration: Sep 2022 – May 2023
Summary:

- Developed and maintained full-stack internal web applications to support company operations
- Automated routine tasks to improve productivity and deployed projects to production environments

Responsibilities:

- Developed front-end and back-end features using Laravel.
- Fixed bugs and upgraded existing projects.
- Automated routine tasks using Python and Selenium.
- Deployed projects to production environments.

Technologies: Python, Laravel, Selenium

Software Developer Intern - Hightech Payment Systems (HPS) (IT technicians web app for inventory and sales management)

Duration: Mar 2022 – May 2022
Summary: Built a web application to help IT technicians manage and track inventory, suppliers, clients, and sales/purchases, including report exports in CSV, Excel, and PDF formats.
Responsibilities:

- Developed web application features for inventory and sales management.
- Implemented report export functionality in multiple formats.

Technologies: PHP, CSS, HTML, MySQL

EDUCATION

- **Master's Degree in Computer Engineering & Big Data**
  ENSA Berrechid
  2024 – 2026
- **Professional License in Full-Stack Web Development & DevOps**
  FST Settat
  2023 – 2024

CERTIFICATION

- **Professional Certificate in Game Design & Development**
  ISART Digital (Ministry of Youth · French Embassy · UIR)
  2025 – 2026