

Assylbek Saduakhassov

+971 56 547 2592 | assylbek.s@nyu.edu | linkedin.com/in/assylbeks | assylbek.me | github.com/assylbek-codes

SUMMARY

Forward Deployed Engineer building production systems across financial services, integrations, and applied AI. Experienced in turning ambiguous customer requirements into reliable software, data integrations, and LLM-powered workflows.

EXPERIENCE

Forward Deployed Engineer

October 2025 - Present

Alpheyra

Abu Dhabi, UAE

- Own financial-data integrations for a wealth-management client, translating client data models and operational requirements into production ingestion workflows.
- Led modernization of legacy XML and CSV ingestion into direct Snowflake-based workflows, covering historical backfills, validation, and production cutover.
- Developed client-facing tooling to inspect source mappings, monitor processing, and investigate rejected records.
- Built a configurable synthetic-data generator for demos, QA, feature validation, and performance testing.

AI & Software Engineer (Contract)

May 2025 - October 2025

ProfSidekick

Abu Dhabi, UAE

- Built a multimodal AI teaching platform that turns presentations into voice-interactive lessons with real-time tutoring and slide navigation.
- Developed the backend with FastAPI, PostgreSQL, and Redis, including APIs, data models, and event-driven workflows for lessons and user sessions.
- Integrated OpenAI Realtime, Vision, and tool calling for live questions, contextual slide explanations, and tool-driven navigation.
- Implemented real-time communication with WebRTC and event streaming to synchronize audio, AI responses, slide actions, and session state.

AI & Software Engineer (Contract)

April 2025 - October 2025

CTOgram

Almaty, Kazakhstan

- Built an AI assistant for automotive service and parts requests across mobile and Telegram.
- Developed a remote Model Context Protocol (MCP) server integrated with the OpenAI Responses API, enabling tool calling and live business-data retrieval.
- Used structured model outputs to generate interface elements such as buttons and selection menus from tool results and conversation context.

Software Engineer

April 2024 - March 2025

Qlub

Dubai, UAE

- Developed and maintained POS adapters using Python services, REST APIs, MSSQL, and Redis, translating provider-specific formats and workflows into Qlub's integration model.
- Worked with restaurant teams, internal stakeholders, and external technology providers to clarify requirements and troubleshoot production integration issues.
- Used Grafana dashboards and Jaeger traces to investigate failures and trace issues across services.
- Built a new POS adapter that connected an external provider to Qlub's existing QR ordering workflow.

Co-founder & Founding Engineer

September 2023 - May 2024

Clout

- Co-founded and built an influencer media-kit and analytics product integrating Instagram, TikTok, and YouTube.
- Built the backend with Django REST Framework and PostgreSQL, and deployed the application on AWS using EC2, S3, and RDS.
- Automated collection and refresh of social-media performance data used in creator media kits.

Research Assistant

April 2023 - April 2024

NYU Abu Dhabi Laboratory for Computer-Human Intelligence

Abu Dhabi, UAE

- Developed a Chrome extension using JavaScript and the Chrome Extensions API to collect browser-interaction data for research on productivity and online distraction.
- Built a Flask backend with REST APIs and JWT-based authentication for receiving and storing browser events in real time.
- Improved PostgreSQL query performance for high-volume event data through indexing and partitioning.

EDUCATION

New York University Abu Dhabi

Abu Dhabi, UAE

B.S. in Computer Science, Minor in Applied Mathematics; GPA: 3.77

August 2021 - May 2025

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript

Backend & Integrations: FastAPI, Django REST Framework, REST APIs, systems integration

AI Systems: OpenAI APIs, LLM applications, tool calling, MCP, multimodal and real-time AI workflows

Data & Infrastructure: PostgreSQL, Snowflake, Redis, MSSQL, Docker, AWS