

Asis Paudel

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7 years of experience designing and shipping distributed systems, AI platforms, cloud infrastructure, and full-stack products. Experienced in leading architecture from concept to production across Kubernetes, AWS, Azure, FastAPI, React, RAG, and event-driven systems.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL
Frontend: React, Next.js, Angular, Tailwind CSS
Backend: FastAPI, Django REST Framework, Node.js, PostgreSQL, SQLAlchemy
Cloud: Docker, Kubernetes, AWS, Azure, Terraform, Kafka, ArgoCD
AI: RAG, Agentic AI, Databricks, Google OR-Tools

EXPERIENCE

Lead Software Engineer

Dec 2024 – Mar 2026

AB InBev via Toptal – RAG, Azure AKS, Databricks, FastAPI, React

- **Led the architecture and delivery of Insights Copilot**, an enterprise AI assistant built with FastAPI, React, Azure AKS, Databricks, RAG, and agentic workflows to support internal business analytics.
- **Replaced CPU-based HPA with Redis queue-driven KEDA autoscaling** for AI chat services on AKS, improving peak-traffic responsiveness and **reducing timeout errors by 50%**.
- Implemented human-in-the-loop clarification workflows in LangGraph to resolve ambiguous brands, markets, and locations before tool execution, contributing to a **300%+ increase in questions asked per session** after launch.

Software Engineer

Sep 2022 – Sep 2024

Frazil – IoT, Kafka, AWS, FastAPI, ArgoCD

- Built **Kafka-based telemetry pipelines** processing over **100K events per minute** from thousands of IoT vending machines, **preventing data loss during traffic spikes** and keeping operational dashboards reliable.
- Designed and built a **self-service Argo CD platform** that let developers launch isolated environments on demand, reducing maximum wait time from **4 days to 15 minutes**.

Fullstack Engineer

Aug 2019 – Jul 2022

KPS Software – Angular, Java, OR-Tools, Healthcare

- Built **workforce optimization and caregiver-matching features** using Python and OR-Tools, and led an **Angular UI restructuring** that improved scheduling reliability and service-planning workflows.

PRODUCTS SHIPPED

Lead Product Engineer

Shipped 2026

SettleQ

<https://settleq.com>

- Designed and built an **invoice recovery platform** integrating Stripe Connect, Temporal, FastAPI, and React, taking it from concept to production.
- Built **durable Temporal workflows** that moved invoices through timed recovery stages reliably, replacing fragile cron-based processing.

Lead Product Engineer

Shipped 2024

Scholars' PTE

<https://scholarspte.com>

- Customized a **Whisper-based speech recognition pipeline** and implemented Celery task queues, reducing evaluation feedback time **from 5 minutes to 15 seconds**.
- Mentored **three junior developers** while owning the **end-to-end full-stack architecture** across Next.js, FastAPI, PostgreSQL, and Supabase.

PERSONAL PROJECTS

Docklite: A **local-first VS Code extension** for inspecting and managing Docker containers, images, and volumes without leaving the editor. [View in Marketplace](#) 📄

Mocklane: Converts pasted data models and plain-language requests into **structured JSON API responses**. Its CLI launches a browser workspace, serves generated mocks through a local API, and **proxies unmatched requests** to an existing backend. [View in NPM](#) 📄

EDUCATION

Constructor University

2018 – 2021

B.Sc. Mathematics

Bremen, Germany