AABESH KARMACHARYA
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PROFESSIONAL SUMMARY

Full-stack developer with over 9 years of experience specializing in backend systems, data engineering, and AI-integrated applications. Skilled in designing scalable architectures, developing data pipelines, and implementing AI-driven solutions. Adept at leveraging cloud infrastructure and modern frameworks to build robust, high-performance software for data-centric environments.

PROFESSIONAL EXPERIENCE

Onaroll Inc. — *Full-Stack Developer*
 June 2021 – September 2025 | Remote

- Led multiple feature development projects from concept to deployment, improving reliability, scalability, and system efficiency across the platform.
- Designed and built **data pipelines using Dagster** to fetch, clean, and process customer data from multiple sources — generating analytics and performance metrics for reward systems.
- Architected and implemented **complex microservice systems** using **Redis** (caching), **AWS SQS** and **Google Pub/Sub** (queuing), **Django-Q** (asynchronous tasks), and **Dagster** (scheduling and orchestration).
- Designed databases for both **BigQuery** (data warehousing) and **PostgreSQL** (transactional data) to support scalable and query-efficient systems.
- **Developed and deployed an AI-powered chatbot** that allowed users to query employee performance and metrics via natural language — using **prompt engineering** and integration with **LLMs (Large Language Models)** for contextual, data-backed responses.
- Introduced **AI-assisted workflows** to streamline code generation, debugging, and documentation, improving development speed and reducing repetitive tasks.
- Reduced technical debt by implementing **static typing in Python**, creating **coding standards**, and documenting API and service development guidelines.
- Built **integration solutions** for third-party APIs and internal systems, ensuring data integrity and system reliability.
- Implemented a **user history and progress tracking feature**, enabling users to view historical performance data through an intuitive interface.
- Collaborated with cross-functional teams to gather requirements, define architecture, and deliver high-quality features within deadlines.

Freelance Developer — *Upwork & Independent Projects*
2016 – 2021 | Remote (Global Clients)

- Delivered full-stack projects for startups and businesses across the US, Europe, and Asia.
- Built **scalable data-mining tools** to extract and process millions of records from thousands of websites.
- Developed **admin dashboards and APIs** to visualize, transform, and serve large datasets.
- Created **data-driven tools** that generated summaries, reports, and insights for client decision-making.
- Designed **flexible API architectures** to provide data in multiple formats as per client needs.
- Collaborated directly with clients to define requirements and deliver custom technical solutions.

EDUCATION

Tribhuvan University
Bachelor of Science in Computer Science and Information Technology
2012 – 2016

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Kotlin, Java
 Frameworks: Django, FastAPI, React
 Libraries & Tools: Dagster, Polars, Pandas, LangChain, OpenAI API, Hugging Face Transformers
 Databases: PostgreSQL, MySQL, Redis, MongoDB, Neo4J
 Cloud & DevOps: AWS, GCP, Docker, Heroku
 Version Control & Collaboration: Git, Jira, Postman, Swagger
 AI & Data Engineering: LLM integration, Prompt Engineering, Data Pipelines, Model Deployment, API-based AI Workflows

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KEY STRENGTHS

- Strong understanding of **data-driven systems** and **AI-assisted development**
- Experience in designing **microservice architectures** and distributed systems
- Focus on **code quality, maintainability, and scalability**
- Excellent communicator and proactive problem solver in remote, cross-functional teams