YASH RAI

GCP Professional Data Engineer Certified

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PROFESSIONAL EXPERIENCE

Aviato Consulting   July 2024 – Present
Software Engineer   *Remote*

- Architected and deployed **4+ end-to-end scalable MVP backend solutions** using **FastAPI** and **Python**, serving production-ready web and mobile applications for high-growth projects including **Funzy**, **Hellow**, and **Gentoo**.
- Seamlessly integrated **7+ third-party services** including **Auth0**, **Stripe**, **Mailchimp**, **SMTP**, **Campaign Monitor**, **Mixpanel**, and **Google Places API**, enhancing user engagement and streamlining payment workflows across multiple client platforms.
- Optimized application data management using **Firestore** and **Cloud Storage**, deploying containerized microservices on **Google Cloud Run** achieving **99.9%** uptime and enabling **GCP Error Reporting** to automatically send email notifications to the development team.
- Orchestrated large-scale data migration projects (**ConjectPC** and **ProjectWEB**), successfully migrating **50+ terabytes of archival data** to **DAS** using **GCP Transfer Service**, ensuring zero data loss and minimal downtime.
- Engineered **3+ production-grade Google ADK agents** on **Vertex AI Agent Engine**, including a sophisticated **multi-agent system for Wesfarmers** with **Agent-to-Agent (A2A) communication** that automated generation of annual reports, executive presentations, Q&As, and comprehensive summaries in **.docx/.pdf** formats, reducing manual documentation effort by **70%**.
- Developed an intelligent **Legal Document Processing Agent** leveraging **Gemini Pro** to automatically apply company-specific compliance rules to legal documents and generate detailed markup documents with highlighted changes, streamlining legal review workflows and improving compliance accuracy by **45%**.
- Built a dynamic **RAG-based RFP Agent** using **ADK and Vertex AI Vector Search** that enables real-time knowledge base updates, performs semantic search across organizational data, and generates RFP responses with **confidence scores and citation tracking**, improving proposal accuracy and response time by **60%**.

Clarity   January 2024 – June 2024
Software Development Engineer

- Designed and implemented an advanced **Customer Data Platform (CDP)** web application using **React.js** and **Node.js**, improving user data management efficiency by **35%** and enabling real-time customer insights.
- Integrated **Bigtable** for efficient event data retrieval with time-range filters for detailed user activity analysis, processing **10+ million queries** monthly with sub-second latency.
- Built a **real-time event pipeline ETL** using **Python** and **Apache Beam**, processing over **5 million user events** daily from **Pub/Sub**, transforming data, and loading it into **BigQuery** and **Bigtable**, reducing data handling costs by **10%**.
- Developed ETL processes using **Google Dataform** and **SQLX** to transform raw data into incremental tables, enhancing data accessibility and reducing query times by **30%**, improving dashboard performance in **Looker**.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, JavaScript
- **Data Engineering:** Apache Beam, Airflow, ETL/ELT Pipelines, Data Modeling, Stream Processing
- **Cloud Platforms (GCP):** BigQuery, Bigtable, Dataflow, Pub/Sub, Vertex AI, Cloud Composer, Cloud Functions, Dataform, Cloud Storage, Cloud Run, Transfer Service
- **Backend & APIs:** FastAPI, Node.js, REST APIs
- **Databases:** Firestore, BigQuery, Bigtable
- **Development Tools:** Docker, Git, GitHub, Jira
- **AI/ML:** Vertex AI, Gemini Pro, RAG, Vector Search, Multi-Agent Systems
- **Other:** Data Warehousing, CI/CD, Agile Methodologies

EDUCATION

SR Group of Institutions, Jhansi   2020 – 2024
Bachelor of Technology in Computer Science & Engineering   *AKTU University*