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SUMMARY

Software engineer turned data engineer with 5 years of experience delivering data-driven applications, maintaining production data pipelines, and lakehouse architectures. Specialise in real-time data streaming and event-driven workflows using Apache Kafka, Flink and AWS data services. Building experience designing fault-tolerant, scalable and observable data pipelines, with CI/CD automation to ensure maintainability. Leverages a strong foundation in data science and business acumen to deliver data solutions that support strategic goals and drive purposeful, measurable impact.

TECHNICAL SKILLS

Data Engineering: SQL · Python · Databricks · Kafka · Flink · Spark · Airflow
Cloud & DevOps: AWS · Terraform · Docker · Kubernetes · GitHub Actions (CI/CD) · Git
Web Development: Typescript · React.js · Node.js · Next.js · PostgreSQL · Tailwind CSS · Clerk · Convex

PROFESSIONAL EXPERIENCE

Software Engineer (Data) — Singapore Press Holdings (SPH) **Singapore — Nov 2023 - Current**

- Maintaining Kafka-based streaming pipelines and AWS ETL workflows (Glue, Step Functions, EventBridge, MSK, S3, Athena, CloudWatch) to process thousands of real-time user events per second, ensuring reliable, high-quality datasets for downstream analytics and applications
- Building Segmento, a self-service audience segmentation platform that replaces GA and Permutive, saving the organisation high six-figure annual costs. It automates reads from 4+ upstream sources (including datasets from other teams), enabling non-technical users to create demographic, behavioural, and profile-based segments without SQL and power targeted campaigns in minutes via a serverless architecture (API Gateway, Lambda, DynamoDB, SNS, SQS, S3, Athena)
- Led the Web2 transition for Zaobao's online newspaper platform by developing a modern frontend using React and TypeScript, implementing backend services in Node.js, and optimising data fetching, caching, and page load performance. Deployed via an AWS-based CI/CD pipeline to ensure reliable delivery for high-traffic users

Front-End Web Developer — New Creation Church (NCC) **Singapore — Sep 2021 - Oct 2023**

- Built and debugged 30+ single page applications, utilising HTML, CSS, JavaScript and Webflow's proprietary CMS and custom coding features across a 2-year period
- Provided technical consultation to designers by analysing wireframes and offering insights on the feasibility of their design concepts, resulting in a streamlined and efficient development process
- Translated business and user requirements to functional frontend codes, building and maintaining reusable code components and scalable UI libraries within Webflow to streamline future development

System Analyst — Grab Financial Group **Singapore — March 2021 - Sep 2021**

- Improved loan recovery rate from 87% to 93% by analysing repayment data and designing targeted collection strategies, enabling the recovery of over SGD\$0.33M within two months, with users reporting enhanced operational efficiency and smoother day-to-day operations on the platform

Data Engineer — Alibaba Group **Singapore — Aug 2020 - Dec 2020**

- Assisted in NLP model improvement by collecting and preparing datasets through web crawling and regex-based preprocessing, contributing to an 8% accuracy gain and a successful contract bid.

EDUCATION AND QUALIFICATION

Bachelor of Science in Data Science & Business Management — University of Western Australia **Perth, Australia**

Concentrations: Advanced Statistics, Data Engineering, Analysis and Visualisation, Business Analysis and Strategy

- Managed a student-run café, increasing weekly sales by 23% through data-driven strategies and working directly with university leadership on sustainability and long-term planning for the café

Diploma in Business Informatics — Nanyang Polytechnic **Singapore**

Concentrations: Mobile Service and Applications, Business Intelligence and Analysis, Database Management Systems

- Contributed to OCBC bank as a consumer banking intern and raised customer satisfaction by 16% by collaborating with other interns to conduct data collection, cleaning and analysis of key systems like ATMs and online banking