

Kylan Thomson

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Professional Summary

Highly skilled Software Engineer with four years of experience in full-stack development, data engineering, and AI integration. Proven expertise in designing and implementing scalable software solutions that enhance operational efficiency and drive significant revenue growth. Certified Google Professional Data Engineer and Google Cloud Associate Cloud Engineer proficient in AWS, React, Node.js, Python, Terraform, and Kafka. Demonstrated leadership and entrepreneurial skills by founding university organizations and developing successful projects like Resume Revival, which has empowered over 8,000 job seekers, and an AI-powered stock image creator with 12,000 confirmed sales on Adobe Stock.

Skills

React, Node.js, Python, JavaScript, AWS, Google Cloud, Terraform, CI/CD Pipelines, GitHub Actions, Databricks, PySpark, Generative AI, Cloud Architecture, Digital Experimentation, Full Stack Development, Cloud-Native Applications, Agile Ceremonies, A/B Testing, Multivariate Testing, Multi-Armed Bandit Techniques, Contextual Bandits, Data QA Pipelines, Data Pipeline Engineering, Model Orchestration, Infrastructure as Code (IaC), User-Centered Design, Cross-Functional Collaboration

Work Experience

Experimentation Specialist | Alaska Airlines

November 2023 - October 2024 | Seattle, WA

- Engineered Python/PySpark pipelines on Databricks to analyze A/B, multivariate, multi-armed bandit, and contextual multi-armed bandit test results.
- Implemented tagging and analysis for an experiment focused on pricing optimization, analyzing customer behavior and revenue.
- Deployed Spark/PySpark-based data QA pipeline processing of 100k+ daily transactions, enabling automated experiment health checks.
- Developed and analyzed features to encourage eco-friendly fuel donations, experimenting with different donation percentages to maximize conversion.
- Developed a custom configuration-based solution within Optimizely to define and track granular user behaviors across website flows.

Software Engineer | Credera

December 2021 - July 2023 | Seattle, WA

- Worked collaboratively to develop real-time data streams using AWS MSK, enabling personalized discount delivery systems via Braze.
- Conducted extensive Java integration tests to evaluate pipeline data integrity, throughput, and scalability.
- Implemented Infrastructure as Code (IaC) using Terraform, achieving efficient provisioning and management of cloud infrastructure.
- Configured GitHub Actions for CI/CD pipelines, expediting development cycles and automating repetitive tasks.
- Led website localization efforts with React and Node.js to increase global engagement.

Software Engineer | UNO

November 2020 - December 2021 | Seattle, WA

- Contributed to scalable software applications using AWS, React, Node.js, Python, and Flutter in a dynamic start-up environment.
- Worked with stakeholders to interpret business needs and translate them into detailed technical documentation.
- Optimized application performance and scalability by leveraging AWS cloud solutions and Python for backend development.
- Utilized React and Node.js to engineer responsive web applications, prioritizing enhanced user experience.
- Applied Flutter for cross-platform mobile application development, ensuring uniform experience across diverse operating systems.

Education

Bachelor in Computer Science with Minor in Statistics

Virginia Commonwealth University | May 2021

Personal Projects

Resume Revival

Developed Resume Revival, an AI-powered web application that enhances job seekers' chances of success by crafting tailored resumes, cover letters, and application materials optimized for Applicant Tracking Systems (ATS). Led full-stack development using React JS for the frontend and Google Cloud Functions (Python) for backend API integrations. Implemented features such as multi-job tailoring, skill gap analysis, and keyword-rich optimization, enabling users to align their experience with job requirements. Designed a scalable, user-friendly interface with branded 3D minimalist styling and supported document export functionality in professional Word templates. Leveraged AI and automation tools for seamless social media engagement and marketing.

Skills Utilized: React JS, Google Cloud Functions, Python, AI integration, API development, UI/UX design, ATS optimization, full-stack development, scalable architecture, social media automation

Outcome: Achieved a user base of over 6,000 job seekers who successfully utilized Resume Revival to create personalized, keyword-optimized resumes and cover letters tailored to specific job applications. The platform has helped users improve their chances of passing ATS systems, showcasing their skills effectively, and securing interviews, demonstrating its impact and scalability as a valuable career advancement tool.

Project URL: <https://www.resumerevival.xyz/>

AI-Powered Stock Image Creator

Developed a scalable workflow for generating and selling stock images based on trending topics and styles using generative AI. The project leveraged cutting-edge tools, including ChatGPT API for crafting text-to-image prompts, and transitioned from OpenAI's DALL-E 3 model to Flux models on Fal.ai for enhanced speed and cost reduction. Additionally, I built a custom dashboard to view, edit, and batch-upload images, titles, and keywords to Adobe Stock. The dashboard featured a paint masking tool built on top of Diffusers/Stable-Diffusion-XL-1.0-Inpainting-0.1 to refine image details and enable precise editing.

Skills Utilized: Generative AI (DALL-E 3, Flux models, Stable Diffusion XL), API Integration (ChatGPT, Fal.ai), Prompt Engineering, Python, Dashboard Development, Image Inpainting and Editing

Outcome: Successfully generated 15,000 high-quality stock images, resulting in 12,000 confirmed sales on Adobe Stock. Enhanced efficiency and profitability by integrating advanced tools for image refinement and workflow optimization.

Certifications

- **Google Professional Data Engineer** (Issuer: **Google, May 2022**)
Validated proficiency in designing, building, operationalizing, securing, and monitoring data processing systems with a particular emphasis on scalability and reliability. Gained expertise in using Google Cloud technologies to both design and build data processing systems, and create machine learning models ready for production.
- **Google Cloud Associate Cloud Engineer** (Issuer: **Google, May 2022**)
Demonstrated ability to deploy applications, monitor operations, and manage enterprise solutions using Google Cloud Platform products and services. Acquired foundational skills for Google Cloud Platform architecture and service capabilities.