Aman Palod

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EXPERIENCE

Data Engineer — Victoria, BC
Ingrooves Music Group — *MAY 2023 – AUG 2023*

- Developed and managed 10+ data pipelines from retailers including Spotify, Apple Music, and Deezer.
- Automated cron job setup in Rancher by developing a dedicated API, eradicating manual setup. Integrated a Slack webhook for real-time alerts, resulting in quicker response times and reducing issue resolution time by 30 percent.
- Designed and deployed a GitLab crawler API, tracking version utilization across multiple in-house data tools to streamline compliance and reduce redundancy.
- Strengthened application security by identifying and remediating critical log4j vulnerabilities across 5+ Java applications, improving overall system resilience.

Quality Engineer — Vancouver, BC
Dometic — *SEP 2022 – Apr 2022*

- Created and updated Power BI dashboards and reports for quality analysis of manufactured machining parts after rigorous cleaning of data.
- Conducted firmware testing over the CAN network for boat components, identifying potential bugs and saving thousands of dollars in warranty claims through early defect detection.
- Built and maintained customer warranty systems in MS Access, supporting the management of 100+ warranty claims per month with improved data accuracy and tracking.

CST Go-Live Technical Support — Vancouver, BC
BC Children's and Women's Hospital — *JAN 2022 – APR 2022*

- Devised multi-step automation scripts using powershell and python for data cleaning and exporting, resulting in a significant decrease in reporting turnaround time; tool is now utilized by 8 data analysts across the organization.
- Hanlded the maintenance of computers, apply policies and card readers on 500+ computers across facility.
- Troubleshot jira tickets raised by doctors, nurses, and staff, resolving a majority of cases within the first hour to ensure seamless hospital operations.

PROJECTS

QatalogAI | *NextJS, VectorDB, Clerk, Open AI*

- Worked on a custom recommendation system using vector embeddings and the GPT API, achieving 90% accuracy in suggesting industry-standard machinery.
- Implemented secure user authentication with the Clerk API, managing 500+ user registrations.

Crowdship Mobile App | *Expo, React Native, Typescript, SupaBase, Postgresql, Figma, Framer*

- Designing and developing a community based mobile app from scratch using React Native (Expo framework) and a SupaBase backend, connecting commuters with customers for efficient package delivery.
- Implemented the sign up/login feature using a custom SMTP server with authentication workflow.

UVic Marketplace | *AWS, Docker, Node, K8s, Redis, Ngnix, Jest, Jmeter*

- Led the Resilience Ops team of 3 members, serving as the Scrum Master for the capstone project.
- Executed authentication strategies using username/password systems, JWT tokens, and multi-factor authentication(MFA), ensuring secure access for over 10,000 users.
- Optimized query times from 300ms to less than 20ms by implementing Redis caching, improving UX and system performance.
- Scaled backend services by deploying kubernetes cluster on AWS EC2 instances to enhance performance and reliability.

TECHNICAL SKILLS

Languages: HTML, JavaScript, CSS, Java, Python, C, MS PowerQuery, MS SQL, R, Bash Scripting, Mongo
Frameworks: Flask, JUnit, Express.js, Node.js, Material-UI, BootStrap, Rancher, SnowFlake, K8s, Docker
Libraries: React, SQLite, Pandas, NumPy, Matplotlib, REgex

EDUCATION

University of Victoria — Victoria, BC
Bachelor's in Software Engineering — *SEP 2020 – Present*