

Aman Palod

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PROFESSIONAL SUMMARY

Recent Software Engineering graduate from the University of Victoria with hands-on experience across the full development lifecycle through 4 co-ops, school work, freelancing, and project work. Skilled in building scalable web apps, automating infrastructure, and solving complex technical problems. Proven ability to quickly learn new tools, contribute production-ready code, and collaborate across teams.

EDUCATION

Bachelor of Software Engineering

University of Victoria

Sep 2020 – May 2025

Victoria, BC

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C

Frameworks/Libraries: React, Next.js, Supabase, Jest, Node.js, Expo, TanStack

DevOps/Infra: Docker, Kubernetes, AWS, Azure DevOps, Rancher

Databases: PostgreSQL, MongoDB, Snowflake

Tools: Bash, WebdriverIO, Git, Figma

EXPERIENCE

QA Analyst Co-op

Victoria, BC

VertiGIS

Jan 2025 – May 2025

- Automated 8 functional test suites in Chrome using Typescript, WebdriverIO, and Jest reducing regression testing time and gaining good knowledge of DOM traversal.
- Reviewed and validated several pull requests for bug fixes and user stories, ensuring defect free code before merging into the production codebase.
- Executed comprehensive regression testing for VertiGIS Studio Web, identifying and reporting multiple bugs in the release candidate ahead of the next feature release.
- Wrote and updated over 20 test cases after the corresponding bug fixes and user stories were merged.

Data Engineer Co-op

Victoria, BC

Ingrooves Music Group

May 2023 – Aug 2023

- Maintained 5+ 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 web-hook for real-time alerts, resulting in faster response times and reducing issue resolution time by 33 percent.
- Designed and deployed a GitLab crawler API to track version usage across 50+ internal data tools, streamlining compliance and eliminating redundancy.
- Strengthened application security by identifying and remediating critical log4j vulnerabilities across a couple of Java applications, improving overall system resilience.

CST Go-Live Technical Support Co-op

Vancouver, BC

BC Children's Hospital

Jan 2022 – April 2022

- Developed miscellaneous scripts to automate tasks such as cleaning data and exporting data to the database on the network using Powershell, Python, SQL server, and Pulover's Macro recording software.
- Maintained upkeep of computers, apply policies and card readers on 500+ computers across facility.
- Led a team of 4 co-op students and assessed and troubleshooted technical problems brought by doctors, nurses, and staff members

Freelance

Victoria, BC

PixelCrafted - Agency

May 2023 – Present

- Built and managed 7 client websites over 2 years, catering to small and medium businesses and solopreneurs.
- Consult with clients to understand business needs, ensuring customized and scalable solutions.
- Provide end-to-end solutions, including UI/UX design, performance optimization, and best SEO practices.
- Develop and maintain websites using Webflow, Drupal, WordPress, React, Next.js, and Vite.

PROJECTS

OBVS Hackathon - User Management System | *NextJS, MongoDB, ShadCN, Mongoose*

- Designed and implemented a robust backend architecture for a comprehensive user management system using NextJS and MongoDB, featuring role-based access control and secure authentication.
- Designed an extensible schema architecture that supports multiple user roles (Client, Donor, Volunteer, Staff, Admin) with role-specific data structures
- Implemented a comprehensive RESTful API architecture using Next.js App Router, creating type-safe endpoints for user management, authentication, and data operations

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

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

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

- Designed and developed a community based mobile app from scratch using React Native (Expo framework) and a Supabase backend, connecting commuters with customers for efficient package delivery.
- Mocked medium fidelity prototypes for the UI in Figma
- Implemented the sign up/login feature using a custom SMTP server with authentication workflow.
- Designed and implemented chat functionality using Supabase Realtime.

UVic Marketplace | *AWS, Docker, Node, K8s, Redis, Nginx, 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 to users.
- Optimized query times from 300ms to less than 20ms by implementing Redis caching, improving UX and system performance.
- Scaled backend services for over 10,000 concurrent users by deploying kubernetes cluster on AWS EC2 instances

REFERENCES

Available on request