Sovan Patnayak

Computer Engineering • **University of Waterloo**

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Skills

Languages:	C, C++, C#, Go, Python, JavaScript, TypeScript, SQL, Bash, PowerShell
Frameworks:	Angular, React, Node.js, Express.js, jQuery, MaterialUI, .NET, GraphQL
Tools & Databases:	Git, Azure DevOps, Docker, AWS, Jenkins, ServiceNow, Ansible, Alfabet, Coupa, Perforce (P4)

Experience

Hatch   **Mississauga, ON (Hybrid)**

Software Engineer – Digital Products (Internship)   *Mar 2023 – May 2023*

- Implemented efficient GraphQL CRUD operations for managing product metadata, streamlining data access and performance
- Developed an Angular breadcrumb component to streamline user navigation, utilizing route traversal, and handling nested routes effectively, improving application usability for over 1000 daily users
- Boosted application reliability and maintainability by expanding Jest test coverage from 86% to 98%, through the creation and execution of numerous comprehensive unit tests

Placeholder   **Toronto, ON (Remote)**

Software Engineer – Engineering Team (Internship)   *May 2022 – Aug 2022*

- Developed new data management console features using TypeScript and GraphQL, improving data collection and accessibility
- Refactored 50+ unit tests into table-driven tests with Go, enhancing test readability and maintainability for microservice architecture
- Migrated deprecated core front-end components from React to TypeScript, optimizing codebase for a new internal website
- Architected and shipped reusable components (tables, modals, buttons, and toolbars) using React, Typescript and MaterialUI

Electronic Arts (EA)   **Vancouver, BC (Remote)**

Software Quality Engineer – FIFA Ultimate Team (Internship + Part Time)   *Sept 2021 – Apr 2022*

- Deployed automated Jenkins CI pipeline, reducing Perforce shelf generation time by 20% and simplifying pre-integration testing
- Streamlined QA processes by 50% by investigating and proposing CI pipeline enhancements for authentication and authorization
- Optimized automated QA processes by configuring a dedicated Ubuntu VM using Hyper-V, reducing QA testing time by 25%
- Authored and peer-reviewed design documents for QA process/architecture changes, applying test-driven development principles

Sun Life Financial   **Waterloo, ON (Remote)**

Software Architect – Enterprise Architecture (Internship + Part Time)   *Jan 2021 – Sept 2021*

- Prototyped a CRUD Serverless API with AWS Lambda and DynamoDB, achieving less than 0.1% downtime
- Oversaw the implementation of a custom ServiceNow instance for the internal project approval process, impacting 600+ daily users
- Conducted key data fixes on 1000+ data records in Alfabet (application management system) for audit purposes, ensuring accuracy

BMO Financial Group   **Toronto, ON**

Software Technology Analyst – Solutions Design & Strategy (Internship)   *Jan 2020 – Apr 2020*

- Boosted site traffic by 10% through revamping front-end UI for internal Procurement website, improving aesthetics and functionality
- Managed internal web applications and deployed time-sensitive content in Coupa using hybrid Scrum/Agile methodology

BMO Financial Group   **Toronto, ON**

IT Operations Analyst – IT Automation (Internship)   *Jan 2019 – Apr 2019*

- Refactored 300+ post-validation health check scripts in Python and integrated with Ansible Tower, increasing efficiency by 70%
- Reduced weekly workload by 80% through automating health check package creation with PowerShell scripts that migrate CSV data

Projects

Spotify Playlist Generator   sovanp/spotify-playlist-generator

- Created an application leveraging the Spotify Web API to generate custom playlists using seed tracks from a user's listening history

Text Editor   sovanp/text-editor

- Wrote a light-weight plain text editor using the C/C++ ncurses library with basic functionality such as saving, editing, and exiting

Other Projects   sovanp

- Slack Bots, YouTube Chrome Extension, To Do App, Emulator, Ray Tracer, Pac Man, Energy Monitor, and more on GitHub

Education

University of Waterloo   **Waterloo, ON**

Candidate for B.ASc in Computer Engineering, Honors, Co-op   *Sept 2018 – Apr 2024 (Expected)*

- **Relevant Coursework:** Fundamentals of Programming (C++), Algorithms & Data Structures, Analog & Digital Circuits/Computers
- **Honors & Awards:** President's Scholarship, Richard F. Haskayne Scholarship, Alexander Rutherford Scholarship