

Arshdeep Singh

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Summary

Software Developer II at Stripe, 5+ years in authentication, security, and investments. Impact across Stripe Auth (100M+), the HSBC-RBC acquisition (\$1B+), and Canada's first-to-market FHSA.

Work Experience

May 2025 – **Software Developer II**, *Stripe*, Toronto, ON.

- Present
 - Shipped Email OTP as a new auth factor on Stripe Connect, replacing SMS-only (\$96K/month) and reducing SMS-based fraud.
 - Extended risk-based bucketing to two of Stripe's primary auth surfaces (Connect: 26M+ users, API keys: 100M+ developers), enabling adaptive auth from risk signals; signal-ingestion pattern and dashboards adopted by partner teams.
 - Migrated Stripe API endpoints onto risk framework; cut migration consumer runtime from ~1 day to seconds via compute scaling, DB call/lock optimization, and caching.
 - Built UI and ran LLM evals for a Human-in-the-Loop system gating sensitive agent-initiated API calls; validated that agent prompts produced correct downstream tool calls.

Aug 2023 – **Senior Software Developer**, *Royal Bank of Canada*, Toronto, ON.

- May 2025
 - Contributed to the largest acquisition in Canadian banking history, integrating HSBC clients into the RBC Direct Investing platforms, adding \$1B+ to AUM while ensuring on-time delivery with reusable development, agile feature toggles, and modern React patterns.
 - Redesigned the Direct Investing homepage using a scalable design framework, incorporating responsive and accessible elements to improve user engagement.
 - Assisted in enabling foreign market trading, expanding global reach.

Sep 2021 – **Software Developer**, *Royal Bank of Canada*, Toronto, ON.

- Aug 2023
 - Led front-end changes for Canada's first-to-market First Home Savings Account (FHSA) on RBC InvestEase, delivering within 4 months and enabling \$100M in Q1 investments.
 - Developed bulk account approvals, reducing manual processing by 40%.

Jan 2021 – **Software Developer Co-Op**, *Royal Bank of Canada*, Toronto, ON.

- Apr 2021
 - Built Java Spring batch migration tools for legacy system decommissioning; recognised by RBC's Group Head of Technology & Operations for exceptional performance.

May 2020 – **Software Developer Co-Op**, *Portable Intelligence Inc.*, Markham, ON.

- Aug 2020
 - Built a UDP integration layer for the Artemis computer vision system, opening a new revenue stream; shipped an automated update system that eliminated on-site client visits.

Education

Jan 2018 – **Honours Bachelor of Technology – Software Development (BSD)**, *Seneca College*,

Aug 2021 Toronto, ON.

- GPA: 4.0
- President's Honour List: Fall 2018 - Summer 2021

Skills

Languages Ruby · TypeScript · C# · HTML/CSS · Java · Python · Swift
Frameworks .NET · ReactJS · NextJS · React Native · SwiftUI · NodeJS
Databases DynamoDB · PostgreSQL · MongoDB · MS SQL Server · ChromaDB
Other Object oriented design · LLM + RAG Integration · LangChain · Figma · RESTful APIs · CI/CD · Git · Computer Vision · Shell scripting · AWS Serverless · WebGL

Projects

Clarity Softphone, *Swift, SwiftUI, Linphone SDK, CallKit*.

A native iOS SIP softphone supporting UDP/TCP/TLS transports, CallKit-integrated call UX, and DTMF. Shipped to the App Store. · github.com/arshwaraich/softphone

Sun Timezone, *Swift, SwiftUI, Figma, NextJS*.

An Web/iOS app visualising multiple timezones along a sun-arc chart with a scrubbing time dial. Ported from an earlier NextJS web app (arshwaraich.github.io/time-zone) to native iOS using LLM coding agents; shipped to the App Store. · github.com/arshwaraich/Timezone

Awards

One RBC Team Award, *2023 Q3, 2024 Q1, 2024 Q3*.

Recognized for work in the HSBC acquisition, FHSA delivery and the Direct Investing Home redesign project, improving cross-functional collaboration and achieving key milestones on time. Royal Bank of Canada

Certificate of Recognition, *April 2020*.

In recognition of contributions to innovative research and entrepreneurial activities at Seneca. Presented at the Annual Applied Research, Innovation & Entrepreneurship Showcase. Seneca Applied Research

RBC AmpHacks Top 5, *October 2020*.

For creating a video-sharing app for seniors called SocialDisco. RBC AmpHacks