

# Ritvik Goyal

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## SUMMARY

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Grade 11 IB Diploma candidate (Victoria Park CI) with a Certificate of Distinction in the 2024 CCC. Proficient in Python, Java, and full-stack web development. Current CTO of a fintech startup, driving ML strategy and MVP roadmap and Software Engineer Intern at STEM·E.

## EDUCATION

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### Victoria Park Collegiate Institute

High School Diploma, International Baccalaureate Program

Toronto, Ontario

Sep 2022 – Jun 2026 (Expected)

## EXPERIENCE

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### Chief Technology Officer

Synapse Investments

Canada

May 2025 – Present

- Platform Architecture & ML Strategy: Designing an ML-driven Python trading-engine blueprint—modular pipelines for 20+ technical and sentiment features, API integration, and ensemble models targeting  $\geq 60\%$  predictive accuracy.
- Planning MVP roadmap, defined team roles, coordinating founding team responsibilities, and researching automated order-execution frameworks.

### Junior Automation Engineer

Math Potentials Institute

British Columbia, Canada

Jun 2025 – Aug 2025

- Streamlining administrative workflows by designing automation solutions for tasks such as email handling, assessment grading, data entry, and more.
- Implementing automation with scripting tools and APIs to reduce manual overhead and increase operational efficiency.
- Reporting to the Programs Director and working independently on deadline-driven projects requiring judgment and initiative.

### Software Engineer Intern

STEM·E Youth Career Development Program

Texas, US

Jul 2023 – Jun 2025

- Designed and developed educational applications with a focus on feature planning and implementation.
- Implemented backend with Flask and built front-end interfaces using HTML, CSS, and React.
- Collaborated within a team to address complex programming challenges and deliver modern digital solutions.

### Hackathon Lead Organizer

Hack Club

Ontario, Canada

Jan 2025 – Mar 2025

- Organized Scrapyard Hackathon in Toronto as part of a global initiative across 100+ locations.
- Collaborated with a team of organizers to manage logistics, promotion, and participant engagement.
- Managed end-to-end logistics for 100+ participants and secured \$20K in sponsorships.

## PROJECTS

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### Algorithmic Trading Bot | *Python, Flask, Pandas*

May 2025 – Present

- Architecting an end-to-end trading system with real-time data ingestion and feature engineering.
- Developing RESTful APIs and integrating with APIs brokerage for automated order execution.
- Implementing CI/CD pipelines with Docker for scalable deployment and testing.

### VicPark Robotics Website | *Astro, Svelte, Tailwind CSS*

Feb 2025

- Developed a statically generated site for VPCI Robotics, including subteam showcases and blog.
- Built interactive UI components with Svelte and animations via svelte-motion.

## TECHNICAL SKILLS

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**Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS

**Technologies:** Git, React, Next.js, Svelte, Astro, Flask, Firebase, Cloudflare, Node.js, Docker, CI/CD, Alpaca API, Pandas, Scikit-learn

**Soft Skills:** Leadership, Team Coordination, Problem Solving, Communication, Event Management