Amartya Karmakar

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SUMMARY

Software engineer with a BSc in Computer Science from Acadia University (GPA 3.86/4.33) and production experience shipping full-stack systems in TypeScript and Python. Junior Software Engineer co-op at SolutionInc; 3rd-place finish at the national MILA × Bell × Kids Help Phone AI hackathon; currently building Fintra AI, an AI-native platform. Seeking software engineering roles where I can contribute immediately and grow.

TECHNICAL SKILLS

Languages: TypeScript · Python · Java · C · JavaScript · SQL · Swift · Bash

Frameworks & Libraries: React · Node.js · Express · FastAPI · SwiftUI · Bootstrap

Tools & Platforms: Git · Docker · AWS · Firebase · SQLite · MongoDB · Linux

SOFTWARE ENGINEERING EXPERIENCE

SolutionInc | Junior Software Engineer (Co-op) Sep 2024 – May 2025 · Halifax, NS

- Delivered technical consulting and system integration projects using SolutionIP™ software across multiple client industries, from scoping to deployment.
- Customized and shipped web interfaces integrated with Linux-based network environments, reducing reported reliability issues for client sites.
- Diagnosed and resolved network configuration issues across diverse infrastructure setups, improving system uptime for clients.

Lunenburg County Lifestyle Centre | Application & Business Analyst (Co-op) May 2024 – Aug 2024 · Lunenburg, NS

- Administered and maintained critical business software applications used daily by operations staff, ensuring zero unplanned downtime during placement.
- Conducted data analysis to surface trends and support data-driven decisions by management, producing regular reports and dashboards.

PROJECTS

Fintra AI — TypeScript · Python · AI Agents (2026 – Present)

AI-native accounts-receivable automation platform for Canadian businesses; designing a deterministic ledger/rules engine with an AI layer for exception handling. Live at fintraai.ca with a working early-access signup pipeline.

FoodLoop — TypeScript · Python · FastAPI · SQLite

AI-driven food redistribution platform built for Cognizant BrAInstorm Hackathon 2025; connects local businesses with shelters via geolocation matching and real-time availability tracking.

Race Command Center — TypeScript · REST APIs

Live telemetry dashboard for real-time F1 in Schools race data monitoring; ingests and visualizes multi-channel sensor streams with sub-second refresh via Lovable-hosted deployment.

Campus Safety Hub — TypeScript · Python · Shell

Campus safety platform enabling real-time incident reporting and community-wide alerts; designed around a lightweight event-driven architecture for low-latency notification delivery.

HeartSync — Swift · SwiftUI · Firebase

iOS dating app with real-time Firebase backend, StateObject-driven state management, and seamless OAuth authentication flow; built entirely in SwiftUI with no third-party UI dependencies.

OTHER EXPERIENCE

Eastlink | Major Accounts Consultant Jul 2026 – Present

Manage key enterprise accounts — commercial orders, contracts, billing, and cross-functional delivery with Sales, Finance, and Engineering teams.

Bell Aliant | Residential Specialist May 2022 – Jul 2026 · Halifax, NS

- Drove a 30% quarterly sales increase through targeted one-on-one customer engagement and consultative selling of residential services.

Acadia Technology Services | Service Desk Consultant Jan 2022 – May 2026 · Wolfville, NS

Front-line technical support for hardware, software, and network issues across campus; diagnosed and resolved 50+ support tickets weekly.

AWARDS & RESEARCH

MILA × Bell × Kids Help Phone AI Hackathon — 3rd Place 2024

- Built a multilingual AI safety classifier for youth mental health crisis detection; achieved 0.905 F1 score on hidden evaluation set.

Medical IoT Edge-AI Prototype 2024

- Prototyped edge-AI IoT sensors for predictive maintenance of medical devices, achieving 91% uptime improvement in pilot clinic deployments.
- Bell Momentum Program — Next Gen Leadership (Retail Non-Management) · 2025
- Acadia Excellence Scholarship · Constance Hayward Bursary — Academic excellence & community leadership

CERTIFICATIONS

IBM Data Science — Databases and SQL for Data Science with Python, Coursera, 2021

IBM Data Science — Python Project for Data Science, Coursera, 2021

IBM Data Science — Python for Data Science, AI & Development, Coursera, 2021

IBM Data Science — Data Analysis with Python, Coursera, 2021

Google UX Design — Foundations of User Experience (UX) Design, Coursera, 2023

Momentum Next Gen Leadership Program (Retail Non-Management) — Certificate of Achievement, 2025

EDUCATION

Acadia University | B.Sc. Computer Science (Co-op) · GPA: 3.86 / 4.33 2021 – 2026

Relevant coursework: Data Structures & Algorithms · Operating Systems · Database Management · Artificial Intelligence · Machine Learning · Cybersecurity · Software Engineering · Mobile App Development

LEADERSHIP & EXTRACURRICULAR

Acadia Photography Club | President & Founder 2021 – Present

- Founded and grew the club from scratch; organized workshops, competitions, and community events for an active and expanding membership.

Wong International Centre | Mentor & Ambassador 2022 – Present

- Supported 250+ incoming international students through academic and social transition, providing one-on-one mentorship and campus orientation.