Ditthi Chatterjee

Solutions engineering · Developer relations · Tech community events · Technical product management

Prince Edward Island, Canada · Can work in Canada · Open to relocation · Goes by Nini

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Computer Science (Honours) student with a Certification in Business Administration, graduating April 2027. Looking for roles in solutions engineering, developer relations, tech community events and technical product management. Builds ML and full-stack software, and runs the hackathons and workshops around it.

Education

BSc Computer Science (Honours) with Co-op, plus a Certification in Business Administration Sept 2023 – Apr 2027

University of Prince Edward Island, Charlottetown · CGPA 3.969/4.3 · Dean's Honours List, Faculty of Science (Oct 2024)

- **Honours thesis** (Fall 2026): Forecasting Electric Vehicle Charging Behaviour, a two-stage machine learning pipeline for demand-response planning. Per-car, day-ahead forecasts of whether each of 568 vehicles charges tomorrow and when it plugs in, from ~8M telematics readings, with causal lag features, walk-forward validation and eight model families. Next-day charging ROC-AUC 0.89 against 0.81 for a 4-week-average baseline on one provider's cars, and 0.77 against 0.70 on the other's. Presented to the judges at the Science Atlantic MSCS Conference (Oct 2026). Supervised by Dr. Dania Tamayo-Vera (UPEI) and Dr. Minming Ni (BluWave-ai).

Experience

ML Engineering Intern, BluWave-ai May 2026 – present

- Built EV charging demand forecasting models, and a Streamlit dashboard that walks through each step of the pipeline and its results.
- Demoed the work from the dashboard to the company supervisor and colleagues and to the academic supervisor, and used it to track changes through testing and experiments.
- Integrates and deploys the work with BluWave's production system (since September 2026).
- Co-op from May to September 2026, then part-time and paid on a return offer.
- Tools: Python · scikit-learn · LightGBM · XGBoost · LSTM · Streamlit

M365 Project Assistant, UPEI ITSS (co-op) Jan 2026 – Apr 2026

- On the team that finished deploying Microsoft Teams Calling, with real phone numbers, to all UPEI staff and faculty.
- Started the documentation and project plans for Power Platform and Power Apps.
- Kept the records and tracking the project team reported from, maintained its schedules, and coordinated updates between teams.

Software Engineering Intern, BluWave-ai (co-op) May 2025 – Aug 2025

- Built a Mailchimp integration for an EV charging app: segments by car, charger, utility and demand-response participation; personalised emails; inactive-user detection; webhook-triggered flows; CSV exports.
- Later in the term, forecast BluWave's BluScore with Prophet, and showed in an engineering demo that it performed better than the persistence model the team was using.
- Tools: TypeScript · Node.js · PostgreSQL · Jest · Jenkins · Python · Prophet

School Coordinator and Outreach Instructor, Actua May 2024 – Aug 2024

- Taught robotics and coding with Spheros and Ozobots, alongside Indigenous knowledge, in 11 remote communities in northern Canada.
- Brought Elders, mentors and parents into the program.

Campus roles, UPEI Sept 2023 – present

- **Campus Life Lead** (Advisor from 2024, Lead from May 2026): run the Campus Life Lounge, 20+ students a week, 3+ events a semester.
- **Clubs and Events Coordinator**, Student Union (Sept 2023 – Dec 2024): supported 60+ student organisations with events, funding applications and promotion.
- **Accessibility Services Student Assistant** (Sept 2025 – Apr 2026) · **SMCS Help Centre Tutor**, Calculus and Computer Science 1 and 2 (Jan – Apr 2025).

Leadership and volunteering

SMCS Society, UPEI · President (May 2026 – present), Secretary (Sept 2025 – Apr 2026) Sept 2025 – present

- Co-led the **PEI TechWeek hackathon** (Aug 2026) with the PEI IT Alliance: 24 hours, 50+ participants, 4 judges, 6 mentors, 3 sponsors, $470 in prizes.
- Served on the executive that ran **HackWithSMCSS** (Jan 2026), UPEI's first student-run coding hackathon: 24 hours, 80+ people in the room, CAD 1,250 in prizes, 6 judges, 6 mentors. Reached out to sponsors, secured judges and mentors, and handled the groundwork on the day.
- Organised a cybersecurity workshop with an industry security engineer: all 40 spots filled in the first hour. Planned a trivia and networking night for students, faculty and alumni.

Co-chair, International Press (journalism), UPEI Debate and MUN Club Jan 2025 – Feb 2025

Volunteer Tutor, Indian Ladies Association, Abu Dhabi Apr 2019 – Aug 2023

Projects

HydraClip, Chief Technology Officer, student venture 2026

- A PPE-safe wearable hydration sensor for nurses, after the team interviewed 30+ healthcare professionals. Audience Choice Award, Pitch Battles; finalist at Panther Pitch, 1 of 9 ventures from 42.
- Built the companion app and organisation dashboard screens, with mock data. Paused.
- Tools: TypeScript · React Native · Expo · Next.js · Supabase

Highway Watch, Animal Welfare Hackathon, UPEI Sept 2026

- A design for roadside sensors that warn drivers before a moose reaches the road. Led the business case and financials, and did much of the business research; reached out to eight people for potential-customer interviews; deployed the prototype dashboard and helped plan the software and hardware architecture. Pitched at Spark Tank, PEI IT Alliance.

Smart Calendar Planner, PHP, MySQL and JavaScript 2025

- A scheduler that tells you, while you book, whether the time falls within business hours in the other person's time zone. Built to make it easier to find time with family on the other side of the world; useful for remote teams too.

Ludo strategy experiment, Java, with Mohammed Sahm Fall 2024

- Three AI strategies over 960 simulated games; Defensive won most often, at 16.7%.

ASL Translator, Flutter and Firebase, RevenueCat Shipaton 2025 2025

- Did the research for a team app that recognised signs in real time on the phone, at 8 FPS. The recognition pipeline and UI worked; the team disbanded before launch.

Speaking and training

- Research talk on the honours thesis, judged, Science Atlantic MSCS Conference, UNB Saint John (Oct 2026) · video
- Host, Global Village, UPEI (2025)
- Valedictorian speech, Abu Dhabi Indian School, class of 2023
- Indigenous Cultural Competence and Humility (2024) · Campus Peer Support Worker Training, CMHA PEI (2025)

Awards

- Academic Excellence Award, UPEI Celebrating Student Achievement Program, every returning year since 2024
- Connie Ding International Student Award, UPEI (Dec 2025)
- Dr. Vianne Timmons International Student Award, UPEI (Mar 2025)
- Leo Cheverie Legacy Award, UPEI (Nov 2024), for contributions to student and community life
- UAE Golden Visa for Academic Excellence, Government of the UAE (2023)

Skills

ML and data: Python, scikit-learn, LightGBM, XGBoost, LSTM, Prophet, Streamlit

Software: TypeScript, Node.js, SQL (PostgreSQL, MySQL), REST APIs, Git, PHP, Java, React Native, Expo, Next.js, Supabase, Flutter, Firebase, Jest, Jenkins

Communication: public speaking, workshop facilitation, technical demos to engineers and supervisors