Prajwal Prashanth

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Education

Bachelor of Applied Science (BASc) in Engineering Physics — Sep 2026 – Apr 2030 (Expected)
University of British Columbia — *Vancouver, BC*

Engineering Transfer Program — Sep 2025 – Apr 2026
Langara College — *Vancouver, BC*

- GPA: 4.30/4.33; $1,000 LSU Faculty of Science Award (highest GPA); $7,500 President's International Entrance Scholarship.

Experience

Co-founder & Full-Stack Developer | Next.js, TypeScript, Supabase, PostgreSQL, Vercel — Jun 2026 – Aug 2026
Buildplate — *Greater Vancouver, BC (Remote)*

- Launched a hardware engineering recruitment platform as sole developer, supporting 83 registered users and 66 published portfolios.
- Built authentication, an autosaving project editor, media uploads, and a filterable talent directory with profile previews.
- Redesigned onboarding for a waitlist of about 200 people with searchable fields, fewer required inputs, and a finish-later option to address sign-up drop-off; users could create content before completing profiles and reported faster sign-up in informal feedback.

Founding Full-Stack Engineer | Python, FastAPI, React, QuestDB, Docker — May 2026 – Aug 2026
ForgeX Trading — *Greater Vancouver, BC*

- Built the initial ForgeX Trading backtesting platform, now serving 150+ users, with replay and simulated buy/sell orders.
- Implemented QuestDB storage, batched ingestion, and incremental synchronization for historical market data; supported migration and developer onboarding to hand off the platform.

Projects

cell-safe: Emergency Response Planning | Python, SQL, Spark, Databricks — Sep 2026
Data Intelligence for Smarter Communities Hackathon; Rogers, UBC & Databricks — *Vancouver, BC*

- Won 1st place and $3,000 for a prototype using cell tower data to support emergency transport, shelter, and resource planning.
- Designed the database schema and Databricks pipeline to transform 8.06 million synthetic Waterfront cellular records into 437,760 minute-level active-session summaries, grouping 36 home origins into four regions for response planning.
- Built analysis notebooks and an exploratory interface to inspect activity by time and home origin; co-developed the team's disaster-response scenario for transport and shelter planning.

Vancouver AI Data Storytelling Hackathon | Python, API integration, scikit-learn, Plotly, Flask — May 2025 – Oct 2025
BC + AI Ecosystem Association; Rival Technologies — *Vancouver, BC*

- Earned a $1,000 "Hall of Fame" award for consistently strong individual submissions across a four-round data storytelling competition.
- Built interactive 3D dashboards using embeddings, t-SNE, and K-Means to group opinions from surveys of 1,000+ respondents; extended the approach for the BC AI survey with generated roundtables, distinct voices, and synchronized transcripts.
- Developed PlatoAI, a Flask application combining semantic retrieval and conversational context to generate Socratic dialogues grounded in 1,000+ music-survey responses, with clickable source citations.

JARVIS for the Visually Impaired | Python, C++, Raspberry Pi, Edge Impulse — Jan 2024 – Dec 2024
The Knowledge Society (TKS) — *Vancouver, BC*

- Built a Raspberry Pi wearable assistant for visually impaired users, providing spoken environment descriptions and web Q&A with responses beginning within two seconds after the user finished speaking.
- Implemented on-device wake-word detection and speech recording on a Seeed Studio XIAO ESP32S3 Sense using C++ and Edge Impulse while prototyping a smaller form factor.
- Secured a $1,000 Regional Award grant from Ingenious+ to fund development; presented at four Vancouver AI Community Meetups, gathering feedback from local AI professionals.

Google Internal Announcements MVP | JavaScript, API integration — Dec 2023; presented Aug 2024
The Knowledge Society (TKS) — *Vancouver, BC*

- Independently built a Gemini-powered web application for a TKS challenge, personalizing Google product announcements by employee role and region with document-grounded follow-up Q&A.
- Ranked first by Google Canada among 100+ challenge submissions; presented as a top-three finalist to four Google Toronto judges.

Technical Skills

Languages: Python, C++, Java, TypeScript, JavaScript, SQL, HTML/CSS
Web Development: React, Next.js, Flask, FastAPI, Tailwind CSS, API integration
AI/ML & Data: scikit-learn, pandas, NumPy, Plotly, Spark, Databricks
Databases & Tools: PostgreSQL, MongoDB, QuestDB, Supabase, Vercel, Git, Linux