Prakul Sanjith Selvakumar

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EDUCATION

University of British Columbia (UBC) — Vancouver, BC
Bachelor of Computer Science — *Sept. 2025 – Apr. 2029*
Dual Credit: Functional Anatomy at Northern Alberta Institute of Technology

EXPERIENCE

Construction Labourer — July 2025 – Aug 2025
Woodfibre LNG Project (Ledcor / Bird Construction) — *Squamish, BC*
- Maintained zero-incident safety record during 12-hour shifts by adhering to strict WHMIS and CSTS protocols on site.
- Optimized operational workflow by assisting pipefitters and HDPE fusers with daily tasks and coordinated handoffs.
- Demonstrated effective communication within a multidisciplinary team and alongside heavy machinery operators.

Team Co-Lead (2nd Place - Province Wide) — Oct 2024 – Apr 2025
APEGA Science Olympics — *Edmonton, AB*
- Directed design of a robot using a gyroscope, infrared remote control, and magnetic detection sensors in a full build.
- Led a 4-person team through planning, prototyping, and testing with 100% underground object identification results.
- Achieved self-stabilization and presented technical results for a 2nd place provincial finish overall in competition.

Clinical Support Staff — April 2023 – Aug 2025
Envision Mind Care — *Edmonton, AB*
- Provided compassionate emotional support to diverse patients, fostering a safe and stabilizing environment daily.
- Maintained strict confidentiality and professional boundaries in full compliance with healthcare regulations at all times.
- Adapted interpersonal communication strategies to effectively de-escalate sensitive situations with patients in care.

Youth Literacy Facilitator — Jan 2023 – Aug 2025
EPL — *Edmonton, AB*
- Facilitated interactive literacy sessions for children to actively foster early reading skills and confidence.
- Mentored diverse youth groups by tailoring engagement strategies to accommodate individual learning needs and pace.
- Coordinated closely with library staff to organize program logistics, ensuring smooth execution of weekly events.

PROJECTS

LinkMCP — AI Tool Orchestration | *React, TypeScript, Python, MCP SDK* — 2025
- Accelerated workflows by engineering a drag-and-drop UI abstracting JSON schemas into visual "Super Methods".
- Engineered a logic-flow architecture eliminating syntax errors in MCP integrations to ensure system reliability at scale.
- Developed a template marketplace and pitched technical architecture to investors, demonstrating scalable rollout.

AI Resume Generator | *Python, Groq API (LLM), FPDF* — 2025
- Reduced tailoring time by leveraging Llama 3.3 to map job descriptions via a rapid 6-question interface.
- Engineered a custom PDF engine generating ATS-friendly layouts in under 10 seconds with 100% compatibility.
- Built a modular prompt pipeline to dynamically construct context-aware instructions for LLMs at runtime.

OOP Banking Application | *Java, JUnit, OOP Patterns* — 2025
- Ensured very strong logic integrity by implementing a JUnit test suite to validate edge cases like concurrency.
- Reduced code redundancy by 30% using inheritance and polymorphism to standardize account types and behavior.
- Implemented robust exception handling mechanisms to prevent runtime errors and ensure a seamless experience.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, Racket, SQL, HTML/CSS, LaTeX
Models and Libraries: pandas, NumPy, Matplotlib, TensorFlow, FPDF, JUnit, linear regression, logistic regression
Developer Tools: Github, VSCode, Jupyter Notebook, Google Colab, Google Cloud Platform, Firebase, Supabase
Certifications: CSTS (Construction Safety), Electronic Art Software Engineering Virtual Experience