

# Shridhara Pavel R U

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## EDUCATION

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- **Lakehead University**

*Bachelor of Science in Computer Science; Dean's List 2023-2024*

Orillia, Ontario

*Sep 2021 – Apr 2026*

## EXPERIENCE

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- **Dwellago**

*Flutter Migration Engineer*

Toronto, ON (Remote)

*Sep 2025 – Present*

- **Legacy Codebase Migration:** Leading migration of production Flutter application to modern architecture. Ensuring app store compliance, backwards compatibility, and scalability for growing user base while maintaining zero-downtime deployment.
- **Recommendation Algorithm:** Redesigning recommendation and matching algorithm for real estate platform connecting buyers with sellers. Architecting system to match users based on preferences, behavior patterns, and market dynamics.

*GoLang Backend Engineer*

*Jun 2025 – Sep 2025*

- **Backend Stabilization:** Contributed to legacy Go codebase stabilization, focusing on concurrency patterns and low-latency API optimization. Implemented CI/CD pipelines with Docker containerization for automated deployments across development and production environments.
- **Cross-Platform Development:** Developed responsive Flutter frontend serving iOS, Android, and web platforms. Independently authored critical security patches and bug fixes across codebase with 15+ active contributors, resolving production issues and improving system stability.

- **Iter Innovandi**

*MLE & Software Development Intern*

Montreal, QC (Remote)

*May 2025 – Aug 2025*

- **ML Pipeline Development:** Designed and implemented production OCR, RAG, and NLP systems. Built Flutter wrapper to unify ML functionality across platform. Architected backend with comprehensive fallback mechanisms for model failures, improving system reliability by 40%.
- **Technical Documentation:** Created comprehensive technical documentation for ML systems, enabling faster onboarding and reducing integration time for new team members.

- **Freelance**

*Machine Learning Engineer & Full Stack Developer*

Remote

*Summer 2024*

- **Churn Prediction System:** Developed end-to-end churn prediction model using XGBoost for local business. Performed data cleaning, feature engineering, and model training achieving 88% accuracy on production dataset, directly informing client retention strategy.
- **Client Projects:** Built full-stack blog platform using React, Express, and MongoDB. Developed advertisement platform for law office using React, improving client engagement metrics by 60% through improved UX and performance optimization.

## PROJECTS

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- **Astro Scope:** Real-time collaborative platform for geological data exploration featuring 2D deep-zoom viewer with OpenSeadragon and immersive 3D/VR moon terrain visualization using Three.js and React Three Fiber. Implemented Socket.IO for multi-user cursor tracking, shared annotations, and PDF report generation. Deployed with PM2 process management. Won NASA Space Apps Challenge 2025 for Most Impact with \$1,000 cash prize.
- **RawTorch:** Deep learning library built from scratch using Python and NumPy, implementing custom tensor operations, automatic differentiation engine, and neural network layers. Extended with CUDA kernels for GPU acceleration including optimized GEMM and matrix operations. Implemented multi-threading for matrix multiplication achieving 2-4x performance improvement.
- **Commit Cloud:** Open-source file hosting service leveraging GitHub commits for storage backend. Engineered noSQL database methodology enabling full CRUD operations. Built synchronous file access system with real-time updates using Node.js and Python, providing free alternative to traditional cloud storage.
- **h241:** Decentralized API platform enabling AI agents to coordinate human labor via smart contracts. Built for Beeloud Hackathon using Internet Computer Protocol. Placed top 5 and received consideration for \$25k grant from ICP for continued development of autonomous agent-human coordination system.