

PARI VANSJALIA

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EDUCATION

University of Waterloo

Sept. 2024 - Apr. 2028

Bachelor of Software Engineering, Specialization in AI — GPA: 3.9

Waterloo, ON

Awards: Schulich Leader, Canada's largest STEM Scholarship from 300k+ candidates. (\$120,000); Ted Rogers Legacy, (\$100,000)

EXPERIENCE

Code Rabbit

Sept. 2026 - Present

Machine Learning Engineering Intern

San Francisco, CA

- * Re-architected the production PR reviewer into a **multi-agent system** with specialized agents for issue discovery, evidence gathering, and validation; improved open-source benchmark **recall from 64.7% to 94.1%** and **precision from 30.4% to 70.5%**.
- * Built and deployed a **production evaluation harness** measuring correctness, recall, latency, and inference cost across agent configurations; enabled **stage-level failure analysis** and **drift-informed synthetic data generation** to expand evaluation coverage.
- * Fine-tuned **Nemotron 3.5 Super** for summarization using **SFT**; projected **47% lower inference costs** and **23% time savings**.

University of Waterloo

Jun. 2026 – Present

Research Assistant, Supervised by Prof. Roya Firoozi

Waterloo, ON

- * Leading the development of a **robotics simulation** and policy evaluation framework using **3D Gaussian Splatting** to systematically test manipulation policy robustness under scene perturbations, occlusions, and long-horizon task variations.

Alan

Jan. 2026 – May 2026

Machine Learning Engineer and Strategy

Paris, France

- * Built memory-enabled customer support AI agents serving **1M+ members**, implementing **retrieval-based memory**, **intent classification**, **persistent session context**, and **API-integrated workflows** to increase successful resolutions from **70% to 80%**.
- * Architected **Airflow DAGs** and **LLM orchestration pipelines** for a 140-person sales team, using **scikit-learn** lead-scoring models, retrieval-based workflows, and generative tooling to automate sales operations and drive **€200K+ annualized savings**.
- * Led the organization of a hackathon, hosting 70+ hackers, securing €20K in sponsorships, and recruiting 10 new employees.

Shopify

May 2025 – Aug. 2025

Applied Machine Learning Engineering Intern

Toronto, ON

- * Independently designed end-to-end LLM-based autocomplete using **Python**, **Ruby on Rails**, **GraphQL**, **React** and **Typescript** and implementing **WebSockets**, **model serving**, and **caching**, achieving **low-latency (p95 < 45 ms)** keystroke to output.
- * Benchmarked prefix tries, Elasticsearch, and vector search to evaluate accuracy, semantic relevance, and latency tradeoffs.
- * Developed a hybrid autocomplete system using **Naive Bayes** suffix predictions with a **PyTorch fine-tuned LLM**, trained on **SQL-extracted, 200k+ PII-cleaned completions** from **BigQuery (GCP)** using **SFT** and **GRPO** reinforcement learning.

Royal Bank of Canada

Jun. – Jul. 2023, Jun. – Jul. 2024

Software Engineering Intern

Toronto, ON

- * Built an authenticated **REST API** to serve reusable web components across RBC partner sites, deploying through **Kubernetes** and **Jenkins CI/CD** and reducing repeated partner-side integration work, projecting **\$50K+** in annual savings.
- * Developed reusable web components with **Angular**, **React**, **CSS**, using **Node.js** tooling, supporting **1500+ implementations** across RBC systems, improving reliability through automated regression testing with **Jest** and **Cypress** in **Jenkins** pipelines.

PROJECTS AND LEADERSHIP

FRC Team 7902 — Markham Firebirds: Programming Lead | Python, Java, Git

Mar. 2021 – Aug. 2024

- * Introduced the team's first use of **computer vision**, for real-time object detection and autonomous driving during matches.
- * Developed a robust **autonomous period** using simulation software to test navigation and strategy before competition.
- * Led the programming subteam, won the **Engineering Excellence Award** for innovative software and system design.

Hack the North — Sponsorship Coordinator

Mar. 2025 – Jan. 2026

- * Secured **\$300K+** in sponsorships toward Hack the North's record-breaking **\$900K+** total; managed corporate sponsor relationships, coordinated sponsor activations and large-scale event logistics, and led a successful **Guinness World Record**.

SKILLS

Languages & Frontend: Python, Java, C++, C, JavaScript, TypeScript, Ruby, SQL, React, Angular, Next.js, Tailwind, CSS

AI, ML & Data: PyTorch, TensorFlow, scikit-learn, SFT, GRPO, Naive Bayes, Vector Search, BigQuery, 3D Gaussian Splatting

Backend, Cloud & Tools: Node.js, Rails, REST APIs, GraphQL, WebSockets, Docker, Kubernetes, Airflow, GCP, Git, CI/CD, Jest