Sanvi Kaushik

+1 (613)-805-6702 | Email | LinkedIn | Github

EDUCATION

Carleton University | Co-op, Third Year Standing | Expected April 2028
BEng, Bachelor of Software Engineering, | GPA: 4.0 (Dean's Honour List) | Ottawa, ON

Admission Scholarships: President's Scholarship (valued at $12,000)
Relevant Courses: Database Management Systems, Data Management, Algorithms & Data Structures, Object-Oriented Software Development, Computer Organization & Architecture, Discrete Structures I & II

PROJECTS

Global Trade ETL Pipelines | *Python, Pandas, PostgreSQL*
- Designed and deployed an ETL pipeline ingesting **10K+ XML trade records per batch,** cutting parse time from **~90s to under 15s** through parallelized extraction and no-DOM parsing
- Enforced **100% schema validation coverage** with **Pandera**; in QA runs, blocked **455 malformed records, representing 23% of batch,** and reduced downstream data quality issues by **over 90%**
- Implemented idempotent **PostgreSQL** upserts with audit logging, eliminating duplicate record loads and sustaining **around 1.2M rows per minute** in benchmarks

TECHNICAL SKILLS

Languages: Python, PostgreSQL, C++, C, Ruby, Java, Javascript, React.js, Bash, PHP, Kotlin, HTML/CSS, YAML
Data & Cloud: Microsoft Azure, Docker, Pandas, Tensorflow, Flask
Tools & Frameworks: Git, Jira, Pandera, REST APIs, Node.js, React.js, GTest, Postman, Linux/Unix

WORK EXPERIENCE

Software Developer Intern | *Ericsson* | May 2025 - PRESENT
- Built a **retrieval-augmented chatbot** by training on internal Cloud RAN docs and benchmarking **LLMs** and **embeddings** to improve query handling and employed as a dev assistant now adopted by the team
- Engineered **20+** automated **C++ test pipelines** to validate full message encoding/decoding in 5G modules, raising unit test coverage to **100%** before release

Software Developer Intern | *BlackBerry* | May 2024 - August 2024
- Automated **data generation and validation** by revamping Python scripts with JSON patch functionality, adding multi-version SDK support and ensuring consistent **schema validation** within an **Agile** sprint
- Streamlined signal catalog management with a **C++ API** that automated permission assignments and generated unique IDs for **1,000+ vehicle signals**, eliminating manual overhead
- Re-engineered **GitLab CI/CD pipelines** with **YAML** and **Dockerized Linux** unit tests using Bash and Google Test, modularizing SDK **data ingestion** and stabilizing **100+** automated builds

CERTIFICATES

DELF B2 | December 2022
France Éducation international

LEADERSHIP

Systems and Computer Engineering Society (SCESoc)
Director of External Affairs | June 2024 - PRESENT
- Maintaining partnership with Ciena, to host skill-based events like coding challenges aimed at recruiting student talent
- Created presentations, wrote scripts, and presented them in lectures to build a sense of community and engagement in the diversity of the practices in Software and Computer Engineering