Anees Aissaoui

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Education

Georgia Institute of Technology Part-time, Jan 2026 – Present
Master of Science in Computer Science, Specialization in Artificial Intelligence

University of Waterloo Sep 2019 – Apr 2024
Bachelor of Applied Science in Honours Computer Engineering, Co-op GPA 91.11/100
With Distinction – Dean's Honours List

Experience

Affirm **Ottawa, ON (Remote)**
Software Engineer II | Loan Origination & Reporting (promoted Mar 2026) Jun 2024 – Present

- Authored the tech spec and led 4 engineers in rebuilding loan allocation for $50B+ in annual volume, replacing a Python gRPC service with a Kotlin library embedded in checkout at 600+ peak RPS
- Led the cross-functional launch of Affirm Card loans with a major bank partner by building partner-based origination routing, unlocking $75M+ in annual loan volume
- Cut loan allocation time by over 50% by replacing a legacy origination algorithm with a JSON-driven rules engine, reducing checkout latency by 150ms across millions of transactions annually
- Built a feature-flagged piloting framework for allocation rules, enabling 10x faster releases, plus a team-wide Claude Code skill that cuts rule authoring from ~1 week to under an hour
- Independently owned an automated loan rejection system replacing a 2-hour overnight on-call process involving up to 3 engineers, auto-resolving a Sev1 incident with zero manual intervention
- Led the first production integration of a new data lake API into a critical Spark funding pipeline processing 100M+ rows daily, aligning batch teams on a zero-incident rollout adopted org-wide
- Created an Airflow observability tool at a hackathon (top 10 of 70+, presented to CEO), then co-designed its production successor, now covering 2,400+ pipelines and linked in all incident alerts

GTS **New York, NY**
Software Engineering Intern | Trading Analytics Sep 2023 – Dec 2023

- Raised trade reconciliation accuracy 70% by mapping trade data to ETF symbols and standardizing formats across clearing firms using Python and pandas
- Processed and reconciled 500GB+ of daily data by implementing a new data pipeline for a key firm
- Developed a data migration tool using mysqldump and Python, slashing data cloning times 12x for 3,000+ tables and enabling developers to selectively copy production data into local environments

Palantir Technologies **Palo Alto, CA**
Software Engineering Intern | Deployability Jan 2023 – Apr 2023

- Sped up a job orchestration API 10x by identifying and optimizing performance bottlenecks
- Developed a feature allowing job configuration overrides to preset and customize job runs using Java and Jackson, saving customers 35% of job setup time
- Rewrote the backend of a job monitor app using Java, jOOQ, and PostgreSQL for a 4x speedup

DRW Trading Group **Montreal, QC**
Software Engineering Intern | Web Insights May 2022 – Aug 2022

- Enabled 120+ traders to react to sudden market changes 10+ minutes faster by writing a bot that pulls and posts essential data from an internal trading desk
- Cut a core system's network failure rate by 20%, enhancing low-latency trading pipeline reliability

NFTY Labs **San Francisco, CA**
Software Engineering Intern | Core Engineering Oct 2021 – Dec 2021

- Led development of a serverless app to auto-complete cryptocurrency invoices using Python, FreshBooks API, AWS Lambda, and CloudWatch, reducing accounting workload by over 80%

Additional Internships: Dell Technologies (5G R&D), Solace (Infrastructure), Nokia (Optical Networks)

Skills

- **Languages:** Python, Kotlin, Java, SQL, C, C++, JavaScript, Bash
- **Technologies:** Spark, Airflow, Kafka, Snowflake, Iceberg, gRPC, Kubernetes, AWS, GCP, PostgreSQL, MySQL, Docker, Buildkite, Chronosphere, Gradle, Git, UNIX, Claude Code