

# Avyay Agarwal

hello@avyay.xyz | avyay.xyz | LinkedIn | GitHub

## TECHNICAL SKILLS

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**Languages:** Python, Go, Java, Scala, C/C++, Swift, Ruby, JavaScript, Scheme, SQL  
**Data/ML:** Apache Spark, Kafka, PostgreSQL, Redis, Elasticsearch, SparkML, Scikit-learn, TensorFlow, PyTorch  
**Web/Mobile:** Typescript, Node.js, React.js, Django, Firebase, ARKit, CoreML, HTML/CSS  
**Others:** Temporal, Airflow, Protobuf, Bazel, Docker, Kubernetes, AWS, GCP, Nomad, Bamboo, Consul, Git

## EXPERIENCE

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- Moveworks AI** Feb 2024 – Present  
*Software Engineer* Toronto, ON
  - Owned and developed a permissions platform handling 900+ req/sec using Golang, Python, OpenFGA on Postgres for permissions enforcement across all third party data
  - Created a new permission ingestion pipeline consuming 700+ events/sec for ingesting and processing third party permissions using Kafka, Temporal, Airflow and AWS
  - Planned and performed live migrations of all traffic to new permissions enforcement and ingestion systems without any security breaches or outages, maintaining 99.9% uptime and 24hr SLA
  - Built permissions tooling to support engineering, customer implementation and support teams saving 10+ hrs/day
- Rippling** Aug 2022 – Jan 2024  
*Software Engineer* Toronto, ON
  - Owned the 401(k) suite of integrations ensuring regular processing of \$XXX Million in payroll, working across internal stakeholders, customers and 401(k) providers, using Python, Django and MongoDB
  - Spearheaded an agile team of 3 to help run XX Million GBP in UK payroll pensions by designing and developing Rippling's UK pensions integration from scratch
  - Developed metrics, alerting and automated mitigation flows to reduce on-call/support load by 30% while managing the highest customer ticket volume across my org
  - Drove \$X Million in ARR by enriching third party integrations for customer cross-sell and retention
- Tesla** Sep – Dec 2021  
*Data Engineering Intern* Fremont, CA
  - Developed a data streaming and reporting tool deployed globally across Tesla service centers using Python, React.js, Node.js, Docker and Kubernetes
  - Scaled a dynamic API platform to allow 1,000+ req/sec using Python, Redis, Vertica, Docker and Kubernetes
  - Built an Apache Flink management tool to easily create, manage and deploy Flink jobs
- Twitter** Jun – Sep 2021  
*Software Engineering Intern - ML/Data* Toronto, ON
  - Hardened ML pipelines to increase stability by 40% using Spark, BigQuery, Aurora on Mesos
  - Migrated ML pipelines from on-prem to GCP using Apache Beam, Dataflow and BigQuery
  - Developed multiple bot management and metrics generation workflows for c-suite reporting
- Squarepoint Capital** Jan – May 2021  
*Data Engineering Intern* Montreal, QC
  - Developed multiple ETL pipelines to support quant trading strategies across global markets using Python, PostgreSQL, GCP, Nomad and Bamboo
  - Built and architected a search platform for data discovery across on-prem and cloud clusters using FastAPI, Elasticsearch, Docker, Kubernetes and GKE

## PROJECTS

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- Safeway** | Java, Python, Google Maps APIs
- Developed an Android app leveraging Toronto Police Open Data to help users navigate using the safest routes and automatically send SOS signals if unsafe activity is detected

## EDUCATION

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- University of Waterloo** Waterloo, ON  
*Hons. Bachelor of Computer Science with a minor in Economics* 2017 – 2022
- President's Scholarship of Distinction | Dean's List - Fall 21, Fall 21, Winter 22