



# Mufeez Amjad

Software Engineering, University of Waterloo

mufeez.me 

mufeez-amjad 

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## SKILLS

Languages: Python, Golang, C++, Java, JavaScript, Scala, SQL

Technologies: Kubernetes, AWS, Airflow, Flask, React, TypeScript, Express, GraphQL, Postgres, NoSQL

## WORK EXPERIENCE

- **Software Engineer Intern - Storage** | *Cockroach Labs* Jan - Apr 2022 | Remote
  - Reduced manual compaction execution time by **30%** by minimizing conflicts and enabling concurrent split compactions
  - Improved LSM visualization to load **90%** faster by coalescing multiple version edits and constraining visualization bounds
  - Working on reducing ingestion time by preventing a forced flush when ingested sstables overlap with the memtable
- **Software Engineer Intern - Cloud Infra** | *Splunk* May - Aug 2021 | Remote
  - Led the shift from weekly to monthly release trains, improving reliability and **eliminating 75% of manual toil**
  - Supported Splunk's ongoing production releases to its fleet using *Golang, Kubernetes operators & CRs, AWS, and GitLab CI*
  - Drove a **30% decrease in manual toil** by validating and automating release deployment in GitLab CI pipeline
- **Infrastructure Engineer Intern - Integrations** | *Tatari* Sep - Dec 2020 | Remote
  - Introduced event filtering to ETL pipeline with *Python chained iterators* yielding a **17% increase in attribution accuracy**
  - Led an upgrade of event attribution integrations using *AWS (API Gateway, Redshift, Kinesis, and Lambda)* and *Datadog*
  - Implemented statistical event anomaly detection DAG using *Airflow* with **94% accuracy** against backtested anomalies
- **Backend Engineer Intern - Media Buying** | *Tatari* Jan - Apr 2020 | New York, NY
  - Created end-to-end features for new booking platform **driving millions of dollars in weekly ad spend** with *Flask & React*
  - Ideated and designed a dashboard by conducting user interviews and aligning key stakeholders across 3 teams
  - Independently created a KPI dashboard used by over 45% of the company with *React, Apollo Client, Graphene, and Flask*
  - Leveraged *SQLAlchemy* ORM events to extend support for audit versioning to include a paper trail with user attribution
  - Optimized API endpoints using *GraphQL* and *graphql* connections resulting in a **93% decrease (7s) in page load times**
- **Software Engineer Intern - Ecommerce** | *KitchenMate* May - Aug 2019 | Toronto, ON
  - Re-engineered the creation of printed labels using *AWS Lambda*, **processing data 78% faster** and halving server boot up
  - Devised a graph search SQL algorithm to aggregate the cost of ingredients, driving a **37% decrease in food costs**
  - Created a meal recommendation system factoring in dietary preferences and past orders, increasing daily orders by 8%

## AWARDS

- Stellar Tip - Winner of Stellar Community Fund, **received ~\$100,000** for development of open source cryptocurrency project
- Auxilium - Best Social Good Hack, Best Use of Twilio API, and Top 10 out of 300+ teams @ PennApps XX
- Other hackathons - Best Use of Stellar API @ HackNYU, Best VR Hack @ Red Bull AdrenaLAN, Top 10 Hack @ HackThe6ix
- City of Pickering Civic Award - Awarded \$1000 for outstanding community service and achievements

## EDUCATION

University of Waterloo | **Candidate for Bachelor of Software Engineering (B.SE.)** Sep 2018 - Present (Junior)  
*Double Minor: Combinatorics & Optimization and Computational Math*

Relevant Coursework: Databases, OS, Compilers, Cryptography, Software Testing, Game Theory, Concurrency, Networks, UI, CX/UX