




# Mufeez Amjad

University of Waterloo, Software Engineering

mufeez.me 

mufeez-amjad 

in/mufeez-amjad 

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## SKILLS

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

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

## WORK EXPERIENCE

- **Meta (Facebook) | Software Engineer Intern - Build Infra** May - Aug 2022 | New York, NY
  - Enhanced telemetry and observability of builds and tests with Meta's next-gen build system, Buck2, written in *Rust*
  - Added an ambient event dispatcher with *tokio* LocalKey and a Spawner trait **eliminating tramp data at ~100 callsites**
  - Implemented a custom shared future to allow **sending millions of cross-thread events** for concurrent Buck2 invocations
- **Cockroach Labs | Software Engineer Intern - Storage** Jan - Apr 2022 | Remote
  - Produced a **30% reduction** in manual compaction execution time by minimizing conflicts and parallelizing execution
  - Improved LSM tree visualization tool to **load 90% faster** by coalescing version edits and constraining visualization bounds
  - Achieved a **70% decrease in ingestion time** by *preventing a forced flush* when ingested tables overlap with the memtable
- **Splunk | Software Engineer Intern - Cloud Infra** 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
- **Tatari | Infrastructure Engineer Intern - Integrations** 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
- **Tatari | Backend Engineer Intern - Media Buying** 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*
  - Independently created a KPI dashboard used by over 45% of the company with *React, Apollo Client, Graphene, and Flask*
  - Optimized API endpoints using *GraphQL* and *graphene* connections resulting in a **93% decrease (7s) in page load times**

## 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.)**  
*Double Minor: Combinatorics & Optimization and Computational Math*  
Dean's Honours List (x3)

Sep 2018 – Apr 2023  
(expected)

Relevant Coursework: OS, Distributed Systems, Compilers, Concurrency, Databases, Networks, Cryptography, Software Testing  
Game Theory, UI, CX/UX, Computer Security, Intro to AI