

## EXPERIENCE

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- **Bytebeam** [↗](#) Remote  
*Systems Engineer II* Apr 2023 - Current
  - Part of systems engineering team. Worked on data pipelines connecting IoT devices to Cloud.
  - Scaled data pipeline handle **up to 1.2M events/second** to meet production scale –
    - \* Added support for cloud storage (S3/GCS/ABS) as data sink in data broker architecture.
    - \* Optimized write performance to Clickhouse by implementing worker pools and pipelined data flow.
    - \* Improved efficiency by **reducing data flow 5x** from 150MB/s to 30MB/s with Parquet format adoption.
  - Built data export service handling up to 10GB datasets using **web-queue-worker** model.*Systems Engineer I* Jul 2022 - Apr 2023
  - Owned and managed development of in-house MQTT broker.
  - Migrated legacy data processing engine written in **Go (~10k LOC) to Rust** for ease of maintaince.
- **MakeMyTrip** [↗](#) Gurgaon, India  
*Software Engineer - Holidays Customer Experience* Jul 2020 - Nov 2021
  - Worked on **5+ services behind supportz.makemytrip.com**. Stack – Java, React, Groovy.
  - Integrated MakeMyTrip's support-agent system with Indigo Airlines' 6E-Holidays ([media coverage ↗](#)) platform.

## OSS

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- **apache/arrow-rs** [↗](#) - #5852: Fixes a bug in merging logic of Arrow schema
- **metrics-rs/metrics** [↗](#) - #460 Fixes memory leak in histogram data collection

## EDUCATION

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- **Indraprastha Institute of Information Technology** [↗](#) Delhi, India  
*Electronics and Communication Engineering* May 2020

## PROJECTS

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- **zzva** [↗](#) - Rust
  - Extensible version of 2048 game with support for cli game-play.
  - Includes client library and REST api endpoints for easy integration.
- **webserver-rs** [↗](#) - Rust, Tokio
  - Research project to understand how web-servers work.
- **hashmap-rs** [↗](#) - Rust
  - Implementation of linked HashMap with support for Rust's Entry api.

## PROGRAMMING SKILLS

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- **Languages** - Rust, Python, Javascript
- **Technologies** - Clickhouse, Tokio, React, Docker, Postgres, Git

## ACTIVITIES

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- **Indraprastha Institute of Information Technology** Delhi, India  
*Teaching Assistant - CSE101: Introduction to Programming* Aug 2019 - Dec 2019
  - Designed course material for labs, tutorials and quizzes.
  - Taught and held doubt resolution sessions for a group of ~50 students.