

# AMAN TAHILIANI

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## EDUCATION:

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**Master of Science in Computer Science**, Georgia Institute of Technology

Aug 2022 - Present

**B.Tech in Computer Science**, Jaypee Institute of Information Technology (GPA: **8.2/10**) July 2018 – May 2022

## WORK EXPERIENCE:

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### Innovaccer Analytics, India

#### SDE Intern (Backend)

Feb 2022 - July 2022

- Developed a microservice to aggregate performance metrics of all stages in Data Activation Platform pipelines using **Python, Snowflake, Kafka, and Amazon S3**, identifying 4 bottlenecks in ETL pipelines workflows resulting in an improvement of 18% per EMPI generation.
- Created a framework for success and failure reporting of EMPI (Enterprise Master Patient Index) service resulting in the discovery of 3 bugs and saving 20 minutes of effort per user in a week.
- Fixed all SONAR-identified security vulnerabilities on the Python-based data parsers including HL7, CCLF, and CCDA for the ETL platform, and increased unit-test coverage to 95% in three codebases.

#### Summer Intern (SDE Backend)

May 2021 - August 2021

- Created and maintained the backend for two platform-level services, License Management and Platform Configuration using **Django RestFramework** and **PostgreSQL** complete with 95% test coverage.
- Optimized a critical API endpoint by reducing the response time from **16 seconds to 3**.
- Reworked the route registration endpoints to support bulk registrations, reducing manual effort.

### MEDSupervision, India - Web Development Intern

Oct 2020 - April 2021

- Created 5 sections of the frontend for the MEDSupervision healthcare platform, using **ReactJs** framework, and optimized load times for the website by an average of 60%.
- Designed the **Flask-based** backend for the Medicine Comparator service to enable instant lookup for information about salts for over 1000 medicines and also equivalent substitutes.

## TECHNICAL:

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- **Programming, Scripting, and Design Languages:** Python, C++, Javascript, SQL
- **Development Frameworks:** Django Rest-Framework, Flask, ReactJs
- **Tools and Databases:** Amazon S3, Kubernetes, PostgreSQL, Snowflake, MongoDB, Redshift, SQLite, MySQL, CI/CD, Git, Pygame, Linux

## PUBLICATIONS:

- “Machine Unlearning and Its Need and Implementation Strategies”: ACM Digital Library, presented in IC3-2021.
- “Framework for Determining Suitability of Blockchain”, Transactions on Emerging Telecommunications Technologies, Wiley (Volume 32, Issue10), Oct 2021.
- “Privacy-Preserving and Incentivized Contact Tracing for COVID-19 Using Blockchain”: IEEE Internet of Things Magazine ( Volume: 4, Issue: 3), September 2021.