

# Rohan Varshney

[rohanvar@gmail.com](mailto:rohanvar@gmail.com) | [rohanvarshney.github.io](https://rohanvarshney.github.io) | [linkedin.com/in/rohanvarshney](https://linkedin.com/in/rohanvarshney) | [github.com/rohanvarshney](https://github.com/rohanvarshney)

## Education

**Georgia Institute of Technology, Atlanta, GA**

**Graduation May 2021**

- B.S. in Computer Science (Modeling/Simulation & Intelligence Concentrations) | GPA: 3.7/4.0
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Design & Analysis of Algorithms, Computing in MATLAB, Applied Combinatorics, Differential Equations, Discrete Math, Linear Algebra
- Affiliations: A-Town Showdown (Marketing Chair), GT Ramblin' Raas (Captain, Digital Production Chair & DJ)

## Experience

**Microsoft, Software Engineering Intern, Redmond, WA (Virtual)**

**May 2020 - August 2020**

- Extended an internal chatbot that resides in Microsoft Teams with 8 new deployment-related features via an architecture that allowed the XDeployment team greater bot utilization, cutting down Time to Investigate & Response for on-call when it came to answering FAQ regarding Azure Storage deployments & tenant-based information by up to 4-6 hours
- Achieved end to end integration for all coded features using the backend command client of KQL functions in the XStore connection of Kusto, appropriate response objects coded in C#, and the frontend dialogs that handled user input & parameter validation through extensive communication & assistance from a team in Shanghai (EST+12:00)

**Lyft, Software Engineering Intern, San Francisco, CA**

**January 2020 - May 2020**

- Invented 10 prototype dashboards using Mode Analytics by amalgamating Presto SQL queries, Python Notebooks, & HTML/CSS in order to generate insights about the performance of various Basemap quality metrics, thereby increasing confidence in the adoption of new updated maps as part of the Scorecard project
- Engineered novel heatmaps using (geo)pandas, road network segments as well-known text (wkt) geometries, & Geohash weights through DataFrames to provide spatial visualization of the quality metrics on a region-level, allowing for immediate validation of metric progress & pertinent map changes made in OpenStreetMap (OSM)
- Enhanced & refactored the existing codebase to handle data saving of the map quality metrics using multiple variable partitions to S3 & Apache Hive for any queryable purposes across the organization

**Amazon.com, Software Development Engineering Intern, Seattle, WA**

**May 2019 - August 2019**

- Created multiple new features (autocomplete, bookmark migration for favorites) for the Amazon Enterprise Access (AEA) Android app for AWS that improved usability & robustness for the 5500+ (and exponentially growing) unique monthly Amazon employees in accessing corporate services from their mobile devices
- Integrated dynamic service catalog retrieval to substantially reduce the onboarding duration for service access from 1 month to near real-time by levying multiple AWS services (API Gateway, Lambda, DynamoDB, SNS, S3) to remove dependencies across multiple project packages & automate the process

**Manhattan Associates, Software Engineering R&D Co-Op, Atlanta, GA**

**January 2019 - May 2019**

- Directed the creation of an organizational framework for Call Center UI extensibility through samples created using Angular in a StackBlitz IDE, enabling easy integration of features & extensions into test client environments
- Improved the response behavior of an ACE Editor for Cucumber Tests with Java to real-time by automating the current configuration that required progress of a Gherkin script to be manually checked, eliminating feedback blockage

**Raytheon, Software Engineering Intern, Indianapolis, IN**

**May 2018 - August 2018**

- Leveraged Wireshark & Java for supporting apps & stream specification tools that expedited team Sprint progress for SKRI (Silent Knight Radar Integration) as part of the V-22 Osprey aircraft project
- Designed a customizable C# application that allowed User Stories from Microsoft Team Foundation Server to be exported seamlessly to PowerPoint, improving Sprint planning & Scrum standup evaluation times facility-wide by 25%

## Skills

**Languages:** Java/Kotlin, C#, Python, SQL, JavaScript/Typescript, HTML & CSS, MATLAB, C

**Technologies:** Visual Studio, Android Studio, Jupyter/Python Notebooks, Angular, Amazon Web Services, Docker, NumPy & (Geo)Pandas, Postman, Node.js, StackBlitz, Wireshark, LaTeX

**Interests:** Music & Video Production, Dance (Raas-Garba, Bhangra, Bollywood, Step), Public Speaking, Astrobiology