

Rohan Varshney

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Education

Georgia Institute of Technology, Atlanta, GA **Graduation May 2021**

- B.S. in Computer Science (Modeling/Simulation & Intelligence Concentrations)
- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Linear Algebra, Differential Equations, Discrete Math, Computing in MATLAB, Objects & Design, Design & Analysis of Algorithms
- 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**

Lyft, Software Engineering Intern, San Francisco, CA **January 2020 - May 2020**

- Invented 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 to increase 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 and 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 5000+ (& exponentially growing) unique monthly Amazon employees in accessing corporate services from their mobile devices
- Refactored numerous modules for improved code reusability & readability across the project's UI components
- Integrated dynamic service catalog retrieval to substantially reduce the onboarding duration for service access from 1 month to near real-time by using 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 development environment, enabling easy integration into test environments
- Improved the response behavior of an ACE Editor for Cucumber Tests with Java 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), part of the V-22 Osprey aircraft project
- Designed a customizable C# application that allowed User Stories from the Team Foundation Server to be exported seamlessly to PowerPoint, improving Sprint planning & Scrum standup evaluation times facility-wide

Skills

Programming:	Java/Kotlin, Python, JavaScript/Typescript, SQL, MATLAB, HTML & CSS, C, C#
Software:	Visual Studio, Android Studio, IntelliJ & PyCharm, Jupyter/Python Notebooks, Angular, StackBlitz, Mode Analytics, Git, AWS (S3, DynamoDB, CloudWatch), Docker
Interests:	Public Speaking, American Football, Music & Video Production (Logic Pro X & Adobe CC), Astronomy & Astrobiology (Drake Equation), Dancing (Raas/Garba, Bhangra, Bollywood, Step)