

Sahil Arora

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

August 2015 – May 2021

- BS/MS Candidate in Computer Science (Intelligence and Modeling & Simulation)
- Overall GPA: 3.5/4.0, Major GPA: 3.8/4.0

CPE Lyon, Lyon, France

May 2017 – July 2017

- Studied in BEST (Biomolecular Engineering, Science and Technology) Program for Georgia Tech
- Earned Certificate in Computational Biology through courses abroad and at home institute

EXPERIENCE

Sulchek BioMEMS and Biomechanics Lab

January 2017 – Current

Research Assistant

- Developing machine learning techniques to classify regions of an adhesion curve by atomic force microscopy
- Directed laser light at gold nanorods attached to gold-silica particles to observe the generated heat and movement

Merck Manufacturing Division

May 2019 – August 2019

Automation Intern

- Developed convolutional neural networks in tensorflow and keras for feature extraction and image classification of capped and filled vials as defective and production ready, achieving 95% accuracy for one camera angle
- Created Flask web application with SQLite3 backend to upgrade ticket management system for contracting service
- Automated configuration of filter integrity testers through shell scripting to decrease user error and downtime

Virginia Systems and Technology (VaST)

January 2019 – May 2019

Software Developer Intern

- Developed features for an Angular web app that simulates how well a group of flight paths can locate a target
- Created RESTful API in Java that finds the best combination of flight paths simulated on a leaflet.js map
- Implemented ability to export XML files of interactive leaflet maps to view in Google Earth using Typescript

Novo Nordisk

June 2018 – August 2018

Data Analytics Intern

- Developed modal interface that allows users to add, search, filter and analyze budget line items with ease
- Automated SAP pipeline of distributing, aggregating, and sorting line items using Python and Excel VBA
- Optimized budget management process to save an estimated \$50,000 a year for Business Management team

PROJECTS

Digit Recognition App

- Created an Electron client web app that allows handwritten digits to be drawn through Node.js and Angular
- Trained a multiclass logistic regression model with MNIST data with Microsoft Azure Machine Learning Studio

Lynk Mobile App

- Developed Flutter app with Firebase for Android/iOS for users to create and share profiles with their relevant links
- Implemented methods for profiles to be exported to websites that have a dedicated QR code for users to scan

LEADERSHIP

Data Science at Georgia Tech, External Affairs Member

August 2019 – Current

- Contacted sponsors and coordinated logistical arrangements as part of a team for Hacklytics hackathon

International Society for Pharmaceutical Engineering, Cofounder & Vice President

August 2016 – December 2018

- Organized networking events and research talks for industry professionals, academics, and fellow students

SKILLS

Software Engineering: Git, Gradle, Jira, msSQL, Powershell, jupyter, Azure

Programming: Python, Java, Javascript (Node.js, Angular), TypeScript, Dart, C, R, HTML/CSS, XML, Batch

Operating Systems: CentOS, Ubuntu (Unix), Windows