

Sahil Arora

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia

August 2015 - December 2020

- Bachelor of Science 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

EXPERIENCE

Virginia Systems and Technology (VaST)

January 2019-Present

Software Developer Co-Op

- Developed features in Angular for a web application that simulates collection of location data of flight paths
- Created RESTful API service in Java that finds the best combined data collectors in a simulation
- Gained familiarity in a professional software environment and fluency in Gradle, Docker, Git, and Jira

Novo Nordisk

June 2018 – August 2018

Data Analytics Intern

- Gathered business requirements to identify issues with data entry and optimize budget management process
- 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 scripts and Excel VBA macros with CSV outputs
- Increased process efficiency by 75% saving an estimated \$50,000 a year for Business Management team

Sulchek BioMEMS and Biomechanics Lab

January 2016 – December 2018

Research Assistant

- Conducted independent research in gold-silica Janus particles and gold nanoparticles with Laser Dynamics Lab
- Directed near infrared light at gold nanorods to observe Janus particle locomotion under electron microscopy
- Publishing a paper outlining this novel form of particle motion known as photothermal propulsion

PROJECTS

Digit Recognition App

- Trained a digit recognition model through a multiclass logistic regression
- Implemented machine learning model to test user input with Microsoft Azure ML Studio
- Developed an Electron client web app that allows handwritten digits to be drawn using Node.js and Angular

NBAPI Dayfinder

- Developed Django web app that shows the best basketball player based on user input with React.js and jQuery
- Parsed JSON data from stats.nba.com with pandas in Python and stored player data in SQLite3 database

LEADERSHIP

International Society for Pharmaceutical Engineering, Cofounder & Vice President

August 2016 – December 2018

- Founded local chapter with international society, industry professionals and advising professor
- Organized networking events and research talks for industry professionals, academics, and fellow students

Mock Trial, Attorney

August 2015 – December 2018

- Prepared case theory as attorney and examinations as witness for the team
- Advanced to national competition and placed 4 h out of 350 colleges

SKILLS

Software Engineering: Git, Docker, Gradle, Jira, Supervisor, NGINX, Archeon, ElasticSearch, Protobuf

Programming: Java, C, Python, Javascript (vanilla, Node.js, Angular), R, HTML/CSS

Coursework: Machine Learning, Artificial Intelligence, Computer Networks and Systems, Object Oriented Programming, Computer Organization, Data Structures and Algorithms, Numerical Methods

Operating Systems: CentOS, Ubuntu (Unix), Windows