

Rushabh Varia

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing

Atlanta, Georgia

- **Bachelor of Science in Computer Science** | Intelligence and Info-Internetworks
- **Faculty Honor's Spring 2020 and Spring 2021** | Student on Dean's List 2018-2021
- **Major GPA: 4.00 / 4.00**

Expected May 2022

SKILLS

Software: Python, Java, Django, SQL, MongoDB, OpenCV, Node.js, Javascript, VB.NET, HTML, CSS, C

Technical Skills: Machine Learning, Quant, Design Algorithms, OOP, Software Design Principles, Web Development, REST

WORK EXPERIENCE

ITENTIAL

Atlanta, Georgia

Software Engineer Intern, Prebuilts and Delivery Team

May '21 – Present

- Implemented company's automation software to streamline software upgrade of Cisco Routers for Verizon's multi-city 5G rollout using Itential's Automation Platform (IAP) and Ansible Modules
- Improved the efficiency of implementing interfaces on networking devices by developing an automation workflow using IAP, Jinja2, and APIs to set configuration on multiple devices at once and detailed error handling for debugging
- Built an automation tool which helped the company transition its clients from NSO to IAG – a newer and cheaper technology

PRABHUDAS LILLADHER

Mumbai, India

Software Engineer and Quant Analyst Intern, Investment and Product Strategy Team (REMOTE)

June '20 – April '21

- Implemented and optimized a quant based multi-asset portfolio management system resulting in an AUM ~ \$45 million
- Led a team of 7 analysts and engineers to develop a RESTful web application allowing an analyst to build, back test, and optimize an equity-based strategy using various financial factors – 7x faster than previous implementation
- Designed and implemented a tool that evaluates and predicts the sentiment of the financial markets using a proprietary algorithm and optimized it using Machine Learning – dimensionality reduction and LSTM Neural Network Model
- Programmed a Stock Grid tool which compares relative performance of stocks against benchmarks to suggest which stocks to buy during major market corrections, helping the company profit ~ \$200,000 in one quarter

ECOCAR MOBILITY CHALLENGE

Atlanta, Georgia

Software Engineer Intern, Connected and Autonomous Vehicle Team

January '20 – May '20

- Designed and implemented a feature to simulate randomized driving scenarios in MATLAB and Simulink to test an Autonomous Car (Chevrolet Blazer 2019) which was previously done manually
- Improved the efficiency and accuracy of the variety of tests by ~30% and fast tracked the project by 3 weeks

VIDOC HEALTHCARE SOLUTIONS

Mumbai, India

Software Engineer Intern, DocCat Tool and MedPass App Team

May '19 – August '19

- Led a team of 5 employees to design architecture and implement an end-to-end tool to categorize scanned medical documents using Google Tesseract-OCR, Python, and MySQL
- DocCat replaced 15 less skilled workers who manually categorized the files, thus saving the company \$5,000/month - 120% faster, 65% more accurate than the previous system and processed 10 million old documents and new 9000 files/day
- ViDoc's popular products – MedPass & Emrix – are now used by 45 more hospitals because of the new fast processing tool

GARG LAB, Georgia Institute of Technology

Atlanta, Georgia

Software Engineer Researcher, Mass Spectrometry Team – Biochemistry Department

January '19 – August '19

- Developed software to automate the process of finding fragments using CFM-ID used in Mass Spectrometry
- Localized an online server by using its source code, making fragment detection 40% more efficient and 30% more accurate

PROJECTS & RESEARCH

U.S. TRAFFIC AND WEATHER ANALYSIS – Machine Learning Project at Georgia Tech

January '20 – August '20

- Processed U.S. traffic accidents' data using dimensionality reduction and feature extraction techniques
- Used the severity label to interpret data and construct a predictive model via SVM, Logistic Regression, and Decision Trees
- Our predictive model assesses the severity of accidents on Georgia roads and evaluates driving conditions to undertake necessary precautions by providing alternate, safer routes for long distance road travel

PHILANTHROPY & LEADERSHIP

- **FOUNDER OF NGO – Teach for Fun:** Recruited 50 volunteers to teach 834 under-privileged children using a self-planned curriculum for 5 subjects in order to expose them to new technology and raised ~\$20,000 – for books and relevant material

AWARDS

- **HS LEADERSHIP AWARD:** Highest honor for displaying leadership in academics, athletic teams and community service
- **OIS ACADEMIC SCHOLARSHIP:** A merit-based scholarship given to only 10 out of 500 students