

# Rushabh Varia

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## EDUCATION

**GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing**

Atlanta, Georgia

- Bachelor of Science in Computer Science | Intelligence and Internetworks
- Faculty Honor's Spring 2020 | Student on Dean's List: Fall 2019, Spring 2018, Fall 2018

Expected December 2021

## SKILLS

**Software:** Java, Python, VB.NET, HTML 5, CSS 3, MySQL, C | **Robotics:** Raspberry Pi, Mindstorms NXT, Mindstorms EV3  
**Technical Skills:** Machine Learning, Data Structures, Robotics and AI, OOP Languages, Software Design Principles

## WORK EXPERIENCE

**ECOCAR MOBILITY CHALLENGE, Georgia Institute of Technology**

Atlanta, Georgia

*Software Engineer, Connected and Autonomous Vehicle Team*

Jan '20 – May '20

- Designed and implemented a feature to simulate randomized driving scenarios in MATLAB and Simulink to test out our connected and automated vehicle Chevrolet Blazer 2019 model 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 – 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 INR 185,000/month
- 120% faster and 65% more accurate than the system used before, 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, Mass Spectrometry Team – Biochemistry Department*

Jan '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 the process 40% faster and more efficient
- Improved accuracy of results by 35% as fragment matching was now done using NLP (SpaCy Python Tool)

**VIKUNJ ENTERPRISES**

Mumbai, India

*Software Engineer Intern, Payroll and Attendance Management Team*

May '17 – August '17

- Developed an attendance and payroll system for the employees using VB.NET as front-end and MS Access as back-end
- Improved employee attendance by 22% which increased their average revenue by INR 26,500/month
- The system used identification card barcodes for attendance and sent automated emails to the employees which replaced two low skilled employees responsible to do the same task

## PROJECTS & RESEARCH

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

Jan '20 – Aug '20

- Used a database to get data on traffic accidents in the U.S. and then processed it using dimensionality reduction and feature extraction techniques
- Used SVM, Logistic Regression and Decision Trees to interpret the data, using the severity label, to make a predictive model
- Our predictive model can be used to assess severity on Georgia roads that can further be used to evaluate driving conditions in order to take necessary precautions and to provide alternate, safer routes for long distance road travel

**WIKIMAPS** – Hackathon ESRI Challenge

Oct '19 – Present

- Lead a team of three people to develop a web based application made using ESRI's API, Vue.js and MySQL database
- Educational visualization tool helping users to create polygons on the world map and seeing changes in different layers like crime rates, empires and religion over time

## PHILANTHROPY & LEADERSHIP

- **FOUNDER OF NGO – Teach for Fun:** Recruited 50 volunteers to teach 834 under-privileged children in the surrounding community aimed at exposing them to new technology and train them for a better future. Also, planned curriculum for 5 subjects with a Core Team of 4 people. Raised INR 150,000 – used to buy books and relevant material.

## AWARDS

- **HS LEADERSHIP AWARD:** Highest honor given to a senior who has shown leadership in classroom (academically), athletic teams, community service and events in school.
- **STUDENT OF THE YEAR IN PHYSICS AND CHEMISTRY:** Award given to student displaying the greatest academic success in the respective subjects – Physics and Chemistry.
- **OIS ACADEMIC SCHOLARSHIP:** A merit based scholarship given to only 1 out of 450 students who has portrayed outstanding academic and extra-curricular success and achievement.