

# Varnit Jain

2 October 1996

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## EDUCATION

- **Indraprastha Institute of Information Technology (IIITD), Delhi** GPA: 8.24/10  
*Bachelor of Technology, Computer Science, August 2015 - Present*
- **Delhi Public School, Rohini, New Delhi** Percentage: 97.2%  
*Senior Secondary Education, March 2015*
- **Delhi Public School, Rohini, New Delhi** GPA: 9.6/10  
*Secondary Education, March 2013*

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## SKILLS

- **Programming Languages:** Python, C++, C, Java, SQL, MongoDB, HTML, CSS, Flask, Javascript
- **Platforms and Technologies:** Android SDK, GIT, Amazon Web Services, Digital Ocean, MongoLabs, Firebase, PythonAnywhere, Sketch App, Photoshop, Illustrator
- **Technical Electives:** Statistical Machine Learning (Pattern Recognition), Designing Human Centered Systems, Valuation and Portfolio Management, Privacy and Security in Online Social Media, Theory of Computation, Graph Theory, Embedded Logic Design, Competitive Programming, Discrete Mathematics, Computer Networks
- **Interest Areas:** Internet of Things, Data Science

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## EXPERIENCE

- **Teaching Assistant, IIITD, Delhi**
  - **Introduction to programming** August 2017 – November 2017  
It is course covering programming basics like loops, functions, classes, sorting techniques in Python. Conducted tutorials and created lab exercises (for about 400 students).
  - **Java Module** December 2017  
Conducted a 3 day module teaching basics of Java for about 450 students.
  - **Data Structures and Algorithms** January 2018 – Present  
It is course in Java covering basic data structures, algorithm analysis and solving real life problems using algorithms. Conducted tutorials and created lab exercises (for about 400 students).
- **Co-founder and CTO, GSTree** April 2017 - September 2017
  - Created a website which provided services related to the Good and Services Tax (replaced the whole taxation system in India) introduced in March 2017; we helped companies restructure their policies and business models based on the new tax system.
- **Exchange student, International Exchange Program, La Tour-du-Pin, France** October 2013
  - Attended Lycée Elie Cartan (school) for two weeks where I studied science, math, art and language. I stayed at a correspondent's home where I learnt about their culture.
- **Participant, NASA, Houston, Texas** June 2011
  - Made a sample mars rover using servo motors, a sample landing gear for safe landing an egg, etc. Met an astronaut, visited Johnson Space Centre, NASA's Neutral Buoyancy Lab, and Kennedy Space Center for educational tours.
- **Intern, Ernst and Young, Gurgaon** May 2017 - June 2017
  - **Robotic Process Automation:** In a team of 2, created and deployed a prototype Chat Bot which was used to measure employee satisfaction (in an office of about 1000 employees); built Alexa skills using AWS Lambda to trigger financial automation processes; and performed market research to identify players in the industry who proliferate technology.
  - **Risk Advisory:** Supported data analytic using SQL as part of revenue assurance project for leading coaching institute in India.
- **Design Head and Social Media Manager, Zocialus, Noida** May 2016 - July 2016
  - An online startup selling party supplies and bakery items across Delhi-NCR.
  - Designed a website layout focusing on UI/UX.
  - Augmented social media traffic by 200%, applied techniques for new customer acquisition and increasing repeat visitors.

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## PROJECTS

- Delhi Traffic Optimization** *December 2017 - Present*  
 In a team of 5, I'm working with the Delhi government to improve traffic conditions in Delhi using data from Google Maps API and data from DTC busses of the delhi government. We aim to optimize traffic lights in delhi, help traffic police in predicting traffic congestions, and suggest solutions like flyovers, underpasses, traffic signs.
- MultiModal Fake News Detection** *January 2018 - Present*  
 In a team of 3, building a multi modal fake news detector. We will classify the news into separate categories and build separate models (if needed) for each category. It will also take into account temporal information and images/videos associated with it.
- AutoVend** *September 2017 - December 2017*  
 In a team of 3, built a vending machine using RF tags and image analysis wherein the object taken is detected and billed automatically, making the user experience better. Responsible for building the user app, a server connecting the app to online database, and object detection using 5MPx cameras.
- FixBook** *September 2017 - November 2017*  
 Built a Chrome Extension which nudges users when posting private information; it also hides unwanted content on Facebook based on user settings on the extension. Before this project, no similar extension existed but similar research has been going on in Carnegie Mellon University.
- Braille Printer** *January 2016 - April 2016*  
 Created a prototype of a Braille printer in a team of 4; text sent from phone via bluetooth was printed in braille; made a 3 axis CNC using old CD drives. It's total cost was only Rs. 300 (<\$5). Received the best project award out of 48 teams and was selected for display in Delhi Mini Maker Faire '16.
- DBLP Query Engine** *September 2016 - November 2016*  
 Built a query engine for the DBLP Computer Science Bibliography in a team of 2. Responsible for building a SAX Parser and query formation.
- Academic Information Portal** *January 2017 - April 2017*  
 In a team of 2, built the backend for a Java-based education information portal using SQL and Swing which was used to query information about classes, timetable, students and update data for the same.

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## ACHIEVEMENTS

- Scored perfect 10:** Introduction to Programming, Competitive Programming, Embedded Logic Design, Privacy and Security in Online Social Media, Independent Project - AutoVend, Environmental Science, Technical Communication
- IIT JEE:** Secured a rank of 4552 (top 0.3%) out of more than 1.3 million students.
- Class 12 Score:** Secured a score of 97.2% (top 0.1%) out of more than 1 million students.

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## POSITION OF RESPONSIBILITY

- Mentor, Student Mentorship Program, IIITD** *August 2017 - Present*  
 Mentoring 8 freshmen and helping them with their academic, social and personal issues.
- Administrator, Ink (Design Club), IIITD** *August 2017 - Present*  
 Responsible for managing various affairs of the club and conducting intra and inter university events; design head for college magazine, Kaleidoscope. Member since March '16.
- Operations Lead, Enactus IIITD** *Oct 2016 -- Jan 2017*  
 The IIITD chapter of a global community committed to making others lives better through entrepreneurship; aimed at providing a means of income for women residing in the neighbouring areas of our college by setting up a small cottage industry. Responsible for carrying out the on ground research for a vocational center for underprivileged women.
- Various Events:**
  - Design 360:** Organized a design sprint with 200 participants from all over India in March '17.
  - 16 Words To Go:** Organized a 16-word story writing competition with 150 participants in Aug '16.
  - Delhi Mini Maker Faire:** Helped organize an annual entrepreneurship fair in Delhi.
  - Esya '15:** Helped organize RoboWars (a robot fighting tournament) and was a part of the creatives team for the technical fest of my institute.

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## VOLUNTEER EXPERIENCE

- Nishulk Shiksha Kendra, New Delhi** *Since May 2016*  
 Teaching underprivileged kids in a no cost tuition centre on weekends during summer break.