

# TANVI AJAY NERKAR

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## *Education*

Indian Institute of Technology Kanpur, India Bachelor of Technology, Electrical Engineering	2018-Present CPI 8.7/10.0
National Public School, Indiranagar, Bangalore, India Central Board of Secondary Education (CBSE)	2016-2018 97.4%
Baldwin Girls' High School, Bangalore, India Indian Certificate of Secondary Education (ICSE)	2010-2016 98.2%

## *Academic Awards and Achievements*

- AIR 1299 in JEE Advanced 2018, among 165,000 candidates
- AIR 626 in JEE Main 2018, among 1,100,000 candidates
- AIR 101 in KVPY 2016 among 50,000 candidates
- 'The Young Scientist of the Year' award received from the late Dr. APJ Abdul Kalam
- ICSE 2016 School Topper (AIR 6), CBSE 2018 School Topper
- Centum in Computer Applications (ICSE 2016), Mathematics (CBSE 2018)
- City Topper (Bangalore) of The Times NIE Think and Learn Challenge
- National Rank 2 in Max Life Insurance iGenius Scholarships among 1 lakh students
- International Rank 2 and 23 in Cyber and Maths Olympiads (organised by SOF)
- High Distinction in UNSW Global - International Assessments For Indian Schools in Computer Skills, Science, English, Mathematics

## *Projects*

*Life@IITK* *May 2019 – July 2019*

- Unified web-app for all activities, updates and personal schedule (including individual academic and non-academic student-body updates) at IIT Kanpur
- Front-end developed using ReactJS for web-app and React Native for mobile app

*CSE@IITK Summer of Code* *May 2019 – July 2019*

- Built a Smart Purchase App for the NGO Vitraag Vigyaan
- Used to centralise inventory and purchase details of different departments within NGO
- Developed frontend using ReactJS and backend using NodeJS, MongoDB

*Envy-free Hostel Room Allocation App* *February 2019 – April 2019*

- Developed an application to find a fair and envy free room and price allocation for a hostel
- Implemented the Hungarian Algorithm to find a maximum weighted bipartite matching using Python libraries
- Developed under Project Track of the course Fundamentals of Computing under Prof. Swaprava Nath

### *Technovation Challenge*

*February 2014 – May 2014*

- Powered by Iridescent Ltd. and WeTech
- Developed an Android application using MIT App Inventor 2 under the mentorship of Vice President and Manager of Goldman Sachs Ltd.
- Application was designed to help female high school students explore different career options through a virtual game setting
- Presented the application, business plan and implementation vision at the Regional Pitch held in Bangalore in July 2014

### *Intern, Infosys Ltd.*

*April 2014*

- Topper of a batch of 40 students, selected from over 1000 candidates from top 250 schools in Bangalore through a rigorous aptitude test
- Attended sessions held by employees on topics such as Cloud Computing, Software Development Methodology Analysis, Databases, Advanced Office functions, Visual Studio, Web Application Development, Mobile Application Development, Adobe Photoshop, Software Testing

### *Coursework*

- Fundamentals of Computing | Introduction to Electronics
- Real Analysis | Complex Analysis
- Linear Algebra | Ordinary Differential Equations | Partial Differential Equations
- Probability and Statistics
- Signals, Systems and Networks | Introduction to Electrical Engineering | Microelectronics | Control System Design and Analysis
- Language and Society | Introduction to Literature
- Foundations of Cognitive Science | Bilingualism

### *Skills*

- Programming: C, C++, Python, Java
- Software: MIT App Inventor 2
- Web: ReactJS, NodeJS, HTML, Javascript, MySQL
- Utilities: Git, Bash
- Spoken Languages: English, Hindi, Marathi

### *Positions of Responsibility*

- Student Guide, Counselling Service *July 2019 - Present*
- Academic Mentor, Counselling Service *July 2019 - Present*
- Secretary, Programming Club, IIT Kanpur *March 2019 - Present*
- Secretary, English Literary Society, IIT Kanpur *March 2019 - Present*
- House Vice Captain, Weston House, BGHS *June 2015 - April 2016*

### *Co-Curricular Achievements*

- Best Vice Captain Award 2016
- Efficiency Trophy for Rank 1 overall (grades 5-10)
- Conducted an orientation session in Goldman Sachs as a panelist, alongside reputed members of the industry, as a representative of the Technovation Alumni
- State level (Andhra Pradesh) Gold Medal in Roller Skating (2008)
- Participated and won numerous quizzing competitions, such as Derek's Faster, Smarter, Better Challenge and Times NIE Quizomania