

# Vinod G

JUNIOR UNDERGRADUATE, COMPUTER SCIENCE, RRIT

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## EDUCATION

**R R Institute of Technology**, Karnataka, India  
*Bachelor of Engineering*, Computer Science and Engineering, *Jul' 17 - Jul' 21 (Expected)*  
**GPA: 8.01/10** (Overall)

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## AWARDS & ACHIEVEMENTS

- Recipient of **Rajya Puraskar Award**, the highest award a Scouts and Guides can earn at the State-level from the Governor of Karnataka.
- **State-wise top 50** in Karnataka in National Interactive Science Olympiad (NISO), 2011.
- Secured Scholarship from the **Department of Women and Child Development** in 2013 and 2015, granted to **top 100** in the state.

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## PROJECTS

**Student Attendance Management System (SAMS)**  
*Course : Database Management System | Supervisor : Prof. Mala P* *Sep '19 - Nov '19*

- Built a Django web application to automate the process of attendance management
- Implemented Features such as *Automatic SMS Alerts, Secure Authentication, Backup Logs for Recovery, Daily Analysis* etc.
- [Github Link](#)

**Procedural Terrain Generation with Noise**  
*Course : Computer Graphics | Supervisor : Prof. Nithin K* *Feb '20 - May '20*

- Developed a project using OpenGL to generate terrains, biomes and dungeons procedurally by the use of Noise and *Voronoi Cells*.
- Implemented features such as *OBJ Wavefront Loader, Multitexturing, Antialiasing and Anisotropic Filtering, Player Controller* etc.
- [Github Link](#)

**ML-PyTorch**  
*Domain : Machine Learning* *May '20 - Present*

- Extensive library of Machine Learning models implemented in PyTorch with a focus on accessibility.
- The purpose of this project was not to produce optimized and computationally efficient algorithms but rather to present the inner workings of them in a transparent and accessible way.
- [Github Link](#)

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## RESEARCH INTERESTS

- Algorithms and Data Structures
  - Computer Graphics
  - Neural Networks
  - Computer Vision and Robotics
  - Reinforcement Learning
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TECHNICAL  
SKILLS

**Languages:** Fluent in Python; Familiar with C++, C, Java  
**Libraries:** Pytorch, NumPy, OpenCV, OpenGL  
**Tools/Frameworks:** Django, Flask, SQLite, MySQL, Git, Visual Studio

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RELEVANT  
COURSES

**Coursework:** Data Structures and Algorithms, Operating System, Computer Graphics, Unix Programming, Computer Networks, Databases, Automata Theory, Cryptography and Network Security, Software Engineering, Linear Algebra, Calculus.

**MOOC:** Algorithms, Machine Learning, Neural Networks and Deep Learning, Convolution Neural Networks.

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