

Girish Kumar

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EDUCATION

- **Indian Institute of Technology Ropar** Punjab, India
Bachelor of Engineering in Computer Science; CGPA: 7.06 Aug. 2016 – Present
- **Rajasthan Board of Secondary Education** Kota, Rajasthan
Maths & Science; 85.8% 2016

WORK EXPERIENCE

- **Zomato** Gurgaon, India
SRE Intern May – July 2019
 - Maintained and improved SMS Service, designed template based system and added stats using prometheus
 - Revamped the entire codebase for easier extension and scaling of the service
 - Designed a dashboard for admin uses using React, PHP and GO
 - Learned software engineering patterns and some cool tech stuff

PROJECTS

- **COMPETITIVE PROGRAMMING PLATFORM** Django, Docker, Redis, Postgres
 - CodeArea is a competitive programming platform
 - Designed code editor and judge for submission using python and Docker
 - Added priority queue using Celery and Redis
- **LOCAL AND ONLINE PRICE COMPARISON** Django, Postgres
 - Created a web app on which sellers can post there products, maintain multiple shops
 - Users can compare a particular product's price from different sellers and online store e.g. Amazon
- **MULTIPROCESSOR SIMULATOR** C++
 - Created a multiprocessor simulator for a 16-bit simple RISC isa in C++ by executing operations in circular fashion
 - Added instruction to simple-RISC for parallelsim, eg. WFE(wait for event), SEV(send event)
- **FLAPPY BIRD AI** Neural Network, SVM, pygame
 - Created flappy bird game using pygame
 - Trained gaussian and linear svm for flappy bird game
 - Implemented neural network with genetic algorithm for flappy bird
- **FPS - AI** Deep Reinforcement Learning
 - Designed and Trained, deep neural network with A2C algorithm for various scenarios of vizdoom environment
 - Compared different approaches and algorithms for different scenarios
 - Learned deep reinforcement learning

ABOUT ME

- **Tech Skills**
 - **Programming:** GO, Python, C/C++, React
 - **Other:** Redis, Docker, Sql, git, Linux, VIM
- **Awards & Honors**
 - Won hackathon at Advitiya IIT Ropar Tech Fest
 - Got selected for KVPY scholarship

MOOCs

- **Coursera:** Algorithmic Toolbox
- **Coursera:** Neural Networks and Deep Learning, Improving Deep Neural Networks