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*

INTERNSHIP

- **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 PALTFORM** — 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 perticular 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 enviorment
  - Compared different apporaches and alogorithms 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