Raghav Sethi
Fourth Year Computer Science Undergraduate
Indian Institute of Technology Mandi

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Education

- **Indian Institute of Technology Mandi** — 2014 - present
  B.Tech Computer Science & Engineering — CGPA: 8.09
- **Mother Khazani Convent School, New Delhi** — 2014
  Class XII CBSE — Percentage: 97 %

Skills

Languages: C/C++, Java, Python
Operating Systems: Linux, Windows
Utilities: Keras, PyTorch, Spring, Hibernate, SQL, Git, Shell Scripting

Internship

- **Nucleus Software Exports Ltd.** — June '17 - July '17
  Software Developer Intern
    - Built a web application using Spring & Hibernate to store sensitive data securely following the requirements of PCI-DSS
    - Performed exact search and range queries on the data

Projects

- **BIOGAN: Generating biometric synthetic data** — Aug '17 - present
  Ongoing Major Technical Project
    - Designing a GAN neural network that can generate large quantity of high quality iris and fingerprint images
    - Developing a masterprint to spoof biometric systems
- **Concept Lattice using Titan Graph Database** — April '17 - May '17
  Database Systems
    - Stored and queried a Concept Lattice stored in Titan distributed Graph Database
    - Used Hadoop and HBase at the storage backend
- **iitpipe Driver** — May '17
  Kernel Programming
    - Implemented pipe by building a Kernel Module to pipe two programs with delay
    - Measured performance of the pipe by using different delay and buffer sizes
- **Facebook Messenger Quotebot** — July '16
  Application Development
    - Built an automated messenger bot that can respond with quotes and images to keywords by user
    - Used Facebook Send/Receive API and Flask python framework for web request handling

Relevant Coursework

Data Structures & Algorithms, Algorithm Design & Analysis, Probability Statistics & Random Processes, Pattern Recognition, Database Systems, Operating Systems & Networks

Achievements

- 3rd Position at Topcoder Hackathon at IIT Mandi — 2016
- 91st Rank in national level Microsoft Build the Shield contest — 2016
- School Topper Class XII — 2014