

# ANKIT SOLANKI

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## EDUCATION

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**Indian Institute of Technology, Delhi (IIT Delhi)**  
B.Tech and M.Tech in Computer Science and Engineering

New Delhi, India  
July 2016 - Present

### Advanced Notable Courses

Probability & Stochastic Processes, Computer Architecture and Design, Analysis & Design of Algorithms, Computer Networks, Machine Learning & Data Mining, Operating and Cloud Systems, Computer Graphics, Logic, Parallel Programming, Adv Distributed Systems and Programming, Numerical Algorithms, Cryptography, Software Engineering

## WORK EXPERIENCE

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### Flipkart

#### Software Development Intern

- Designed application for automatic input signal generation
  - Generates automatic Hive query logic
  - Conditional data retraction over hadoop based clusters
  - Tech used ——— Java, Spark, Hive, SQL

### Nokia

#### Data Science Intern

- Designed & developed application:
  - To real-time monitor analysis of customer-complaints.
  - To predict & analyze network congestion and performance of an app.
  - Tech used ——— Cluster Analysis, Google Earth API, Flask

### CSE Department @ IIT Delhi

#### System Administrator

- Simulated agentless system management using Ansible
  - Implemented OAuth server coupled with LDAP
  - Hosted Git server using OAuth for authentication
- Maintaining the computer systems, responding to support requests.
- Tech used ——— Linux, Ansible, OAuth, CFEngine, VM, DNS, DHCP, PXE.

### Removeads

#### Software Developer

- Cloud-based ad blocking software backed with DNS sinkhole.
  - Implemented automated VPS provisioning | User Authentication System | GUI client app
- Tech used ——— *Pi-hole, DNS, PyQt, Flask, Python*

## RESEARCH PROJECTS

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### Music Generation Using GAN

Sept'18 - May'19

*Bharti School of Telecomm Labs @ IIT Delhi*

- Scraped & processed multi-genre musical data in MIDI.
- Used modular framework of CNN based hybrid GAN.
- Generated polyphonic multi-track symbolic music in Piano-rolls.
- Tech used ——— *TensorFlow, Python, MIDI-files*

## PROJECTS

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### Bitcoin Simulation: *Blockchain, Reorganization, Script, Merkle Trees*



- Implemented end-to-end Bitcoin system with multi-transaction support and smart contracts.

### Dockerization-XV6 C, *Docker, ARM, Containerization*



- Designed and simulated a partial-fledged container service over XV-6

## SKILLS

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Programming Languages • Proficient: C++, Java, Python  
Programming Languages • Familiar: C JavaScript, ARM Assembly, Ocaml  
Back-end Web Development: Flask, Django, MongoDB, SQL  
Sysadmin and Cloud Practices: Ansible, Linux, Hadoop, Docker, Spark, PXE