# SAMIKSHYA CHAND

Software Developer I at Amazon, Hyderabad
B.Tech from Indian Institute of Technology, Varanasi

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## EDUCATION

**Indian Institute of Technology (BHU), Varanasi**                    July, 2015 - May, 2019
- B. Tech. in Electronics Engineering  (CGPA: 8.14)

**City International School, Pune (CBSE)**
- All India Senior School Certificate Examination (Percentage: 93.00 %)      **2014**
- All India Secondary School Examination (CGPA: 10)      **2012**

## TECHNICAL EXPERIENCE

**Software Development Engineer (SDE-1) at Amazon Development Center, India**      **August - Present**
- Working in the Registration and Core Services team. Responsible for full stack development of the seller portal.
- Developed backend APIs for secure transmission of seller data to be rendered on the UI.
- Wrote integration tests for an entire service in the Seller Registration code stack.

**Summer Internship at Amazon Development Center, India**      **May - July, 2018**
- Developed backend Coral APIs for content management on Amazon based educational portal.
- Designed and implemented a Lambda JAVA package to receive streams from DynamoDB, process it and feed it to AWS Elasticsearch.
- Used Spring framework, Dependency Injection, Aspect Oriented Programming and wrote JUnit tests.

## PROJECTS

**Metaheuristic algorithms for optimization**      **March - May, 2018**
- Department Project under Dr. M.Thottappan of the Electronics department, IIT BHU.
- Learning, implementing and comparing metaheuristic algorithms like Particle Swarm Optimization, Grey Wolf Optimization, etc. to optimize device parameters for maximizing the output power in MILO devices.

**Hand Gesture Recognition using Image processing and Machine Learning**      **February - April, 2017**
- Exploratory Project under Dr.Kishor Sarawadekar of the Electronics department, IIT BHU.
- Obtained wrist points and features and used them to classify gestures in images using Random Forest Algorithm. This was part of a larger project for aiding the visually impaired to operate computers.

**Autonomous Image Processing Robot**      **March, 2016**
- Constructed a robot that uses feed from overhead camera and applies image processing techniques to accomplish various tasks in Pixelate, Technex, Annual Technical Fest of IIT BHU.

**Gesture Controlled Image editor**      **February, 2016**
- Built hand gesture controlled Image editor (features like zoom, crop, cut, paste, rotate and save) on MATLAB, using image processing and machine learning (logistic regression).

## ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

- **Kshitij, IIT Kharagpur- 2017** : Secured 2nd position in 'Conquest' (an image processing event).
- **Coordinated Cryptography event** 'Spy Bits' with the participation of over 100 students, Udyam-2018.
- **Tutored a batch of 120 students** for Computer programming course (CSO-101), IIT BHU (Jan - May, 2018)
- Participated in **Microsoft Code.fun.do**, 2017 :
  Developed an app for citizen safety and ranked in the top **24 teams** of IIT BHU.
- **UDYAM 2016**, Technical fest Of Electronics Engineering society, IIT BHU:
  - Awarded as the **Best First Yearite of Electronics department** 2015-16.
  - Secured 2nd position in 'Funckit' (Event to make a calculator using ICs).
  - Secured 3rd position in 'Continuum' (Event based on Analog circuit design).
- Actively contributes to **Open Source** on Github.
- Secured 1st position in Intra Freshers Girls Volleyball Tournament.
- Participated in Street Play Competition of Kashiyatra, Annual Cultural Fest of IIT BHU, 2016.

## SKILLS AND INTERESTS

- **Languages:** C++, C, Python, SQL (basic), Java (basic)
- **Technologies:** Visual Studio, Git, MATLAB, AWS (DynamoDB, Elasticsearch, Lambda), Windows Azure
- **Operating Systems:** Linux kernel based (Ubuntu and OSX), Windows
- **Areas of Interest**: Data Structures, Algorithms, Machine Learning, Web Development, Image Processing