

# Dipta Das

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Profile: [Linkedin](#), [Github](#)

## Education

- **Chittagong University of Engineering and Technology** - Chittagong, Bangladesh  
*Bachelor of Science in Computer Science and Engineering* - April 2017  
CGPA: 3.59 out of 4.00
- **Chittagong College** - Chittagong, Bangladesh  
*Higher Secondary Certificate* - July 2011  
GPA: 5.00 out of 5.00
- **Saint Placid's High School** - Chittagong, Bangladesh  
*Secondary School Certificate* - May 2009  
GPA: 5.00 out of 5.00

## Professional Experience

- **AppsCode Inc** - Dhaka, Bangladesh  
*Software Engineer* - April 2017 to Present  
Roles: Research, develop and deploy open-source tools for [kubernetes](#) clusters.  
Projects: [Voyager](#), [Stash](#), [KubeCI](#)

## Research Interest

Cloud Computing, Machine Learning, Artificial Intelligence, Cryptography

## Relevant Coursework

Algorithm Design, Data Structure, Digital Logic Design, Statistics and Queueing Theory, Operating System, Theory of Computing, Artificial Intelligence, Neural Network, Information Security and Cryptography

## Research Experience

- **Lattice Based Cryptography**
  - Undergraduate thesis on "Improving Quality and Performance of the [BKZ](#)

[Lattice Reduction Algorithm](#)” under [Dr. Mokammel Haque](#).

- Experiments on “Improving performance of [Recursive BKZ](#) using Dynamic Programming”.
- Experiments on “Improving reduction quality of [FPLLL](#) library using successive randomization”.
- Achieved place on Hall of Fame of [lattice-challenge](#) site (best dimension: 94).
- Source code and experimental results are made open-source and posted in [Github](#).

## Computing Skills

- **Programming Languages:** C++, Golang, Java, Python
- **Numerical Analysis:** Matlab
- **Databases:** Oracle, MySQL, ElasticSearch
- **Operating Systems:** Linux, Windows

## Activities and Achievements

- Served as vice-president of CUET-COMPUTER-CLUB and organized different programming contests and conducted workshops on Competitive Programming.
- Served as judge and problem-setter of several divisional programming contests.
- Divisional Champion of ACM ICPC Dhaka regional 2014 and 2015.
- Worked with [Dr. Mokammel Haque's](#) research group on several projects based on cryptography.
- Contributed in several open-source projects including popular [kubernetes](#) platform.