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
Merit Position: 10th

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

Test Scores

Graduate Record Examinations (GRE)
Score: 316 (Quant-165, Verbal-151, AWA-3.0)

Professional Experience

AppsCode Inc - Dhaka, Bangladesh
Software Engineer - April 2017 to Present
Roles:
- Kubernetes cluster provisioning in Google Cloud, AWS, Azure and DigitalOcean
- Research and Development of open-source microservices/FaaS for kubernetes clusters
- Continuous integration and maintenance (deployment, auto-scaling, load-balancing)

Skills Developed: GoLang, Python/Bash Scripting, Kubernetes, Docker, HAProxy
Key Projects: Voyager, Stash, KubeCI, Pharmer

Research Interests

Cloud Computing, Machine Learning, Information Security, Cryptography

Relevant Courseworks

Algorithm Design, Data Structure, Digital Logic Design, Numerical Analysis, Statistics and Queueing Theory, Operating System, Theory of Computing, Artificial Intelligence, Neural Networks, Computer Graphics, 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 the 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

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