Eklavya Sharma

http://sharmaeklavya2.github.io

f2014130@pilani.bits-pilani.ac.in | ekurgn@gmail.com | +91-8700909718

Education

BITS Pilani
BE in Computer Science
Expected May 2018 | Pilani, India
Cum. GPA: 9.015 / 10

Amity Saket
CBSE Science
Grad. May 2013 | New Delhi, India
Score: 91.6 %

Links

Github:// **sharmaeklavya2**
LinkedIn:// **sharmaeklavya2**
Codeforces:// **eku**
ICPCID:// **5CN1FMJ0JIDP**

Coursework

Undergraduate
Advanced Algorithms and Complexity
Machine Learning
Cryptography
Design and Analysis of Algorithms
Graphs and Networks
Theory of Computation
Computer Networks
Operating Systems
Compiler Construction
Data Structures and Algorithms
Discrete Structures in Computer Science
Database systems
Probability and Statistics
Linear Algebra
and many more (see transcript)

Skills

Programming
Proficient: C/C++, Python, Django,
Java, SQL.
Familiar: bash, functional
programming (Haskell and Scheme).

Experience

American Express | Intern
Jan 2018 - June 2018 | Gurgaon, India
- Using deep neural networks for classification.

Directi | Intern
May 2017 - July 2017 | Mumbai, India
- Improved Directi's news article classification algorithm.

Zulip | Google Summer of Code student
May 2016 - Aug 2016
- Made Zulip's code Python 3 compatible.
- Added mypy type annotations to Zulip's Python code.

Projects

Analysis of Primality-testing Algorithms Oct 2017 – Nov 2017
'Advanced Algorithms and Complexity' course project
- Studied the AKS primality-test and attempted to improve it.
- Compared compositeness-proving algorithms.

Mitigating DNS-related DoS attacks using SDN Sept 2017 – Dec 2017
- Study DNS-related DoS attacks and analyze mitigation strategies in literature.
- Devise a new mitigation mechanism using Software-Defined Networking.

Compiler Construction Feb 2017 – April 2017
- Created a compiler in C for a toy language for the 'Compiler Construction' course at BITS Pilani.

Data Mining Oct 2016 – Nov 2016
- Analyzed the 'Forest Covertype' dataset and 'US Census' dataset as part of a course in Data Mining at BITS Pilani.

Achievements

ACM-ICPC on-site regionals
- Rank 48 in Amritapuri 2017.
- Rank 66 in Amritapuri 2016.
- Rank 30 in Kharagpur 2016.
- Rank 88 in Amritapuri 2015.

BITS-Pilani Merit Scholarship
- Received scholarship thrice for being in top 2% of my batch.

Societies

BITS-ACM BITS-Pilani ACM student chapter
- Problem setter for 3 programming contests organized by BITS-ACM.
- Created backends for web applications used in online quizzing events.
- Conducted intra-BITS-ACM workshops on Linux and CLI.