

# Eklavya Sharma

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## Education

### **BITS Pilani**

**BE IN COMPUTER SCIENCE**

Expected June 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

- Trained neural networks for classification of semi-structured data.

### **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.