

EDUCATION

EURECOM

MSC IN COMPUTER SCIENCE
(DIGITAL SECURITY)
2020* | France

GURU GOBIND SINGH

INDRAPRASTHA UNIVERSITY
BTech IN COMPUTER SCIENCE AND
ENGINEERING
2017 | India

SKILLS

PROGRAMMING

Programming and Scripting
Python • C • C++ • Java • Shell
PHP
Frameworks
TensorFlow • Spark
Other
Android • Assembly • \LaTeX • GNS3
MySQL

RELEVANT COURSEWORK

• System and Network Security • Security
and privacy for Big Data • Mobile Systems
Security • Wireless Security • Cloud
Computing • Deep Learning • Machine
Learning • Advanced Computer
Networks • Software Development

AWARDS

- Granted the Laboratory of Excellence
Scholarship for Masters
- Won OSMPalooza, an Online Social
Media Hackathon by IIIT-Delhi
- Runner-up in Enigma, Online
Cryptographic Hunt by IIT-Indore
- Qualified for Google CodeJam-2015
- Ranked First in IEEEExtreme 7.0
- Gold Medalist in IAIS by UNSW,
Australia in Science, Digital Technologies
& Mathematics for 4 consecutive years

OTHER ACTIVITIES

- Volunteered with NGOs:
 - MATES Eco Club in events
like Plantation Drive
 - BloodConnect (part of technical team)
- Organised a workshop, 'How to Solve a
Rubik's Cube'
- Started an educational YouTube
channel as a part of Google Developers
Group

EXPERIENCE

IIIT-DELHI | RESEARCH ASSOCIATE

[Precog](#) | [Sept - Nov 2017](#) | [India](#)

Worked under the supervision of [Prof. Ponnurangam Kumaraguru](#) with the privacy
and security research group. Collected and analysed online social media data to
understand behaviour patterns of different stakeholders.

NANYANG TECHNOLOGICAL UNIVERSITY | RESEARCH ASSISTANT

[SenticNet](#) | [Jan - Mar 2017](#) | [Singapore](#)

Amongst 5 out of 250 applicants chosen. Worked on NLP techniques and used deep
learning to train models for Aspect Extraction and NER Tagging. Enriched the
concepts in SenticNet. (Supervisors - [Prof. Erik Cambria](#) & [Prof. Soujanya Poria](#))

UNIVERSITY OF WARWICK | SUMMER RESEARCH INTERN

[WVG Cyber Security Center](#) | [June 2016 - Aug 2016](#) | [United Kingdom](#)

Worked with the research team at Cyber Security Centre to propose and devise
secured methods for behaviour based authentication using mobile devices.
(Supervisor - [Prof. Carsten Maple](#))

DEFENCE RESEARCH & DEVELOPMENT ORGANISATION | INTERN

[SSPL Delhi](#) | [June 2015 - August 2015](#) | [India](#)

Worked with the Information Technology Group at DRDO for designing and
implementing a network for the lab.

KEY PROJECTS

MACHINE LEARNING VS SECURITY | [EURECOM](#)

Devised a tool to gather literature effectively to explore usage of Machine
Learning Techniques in Security. Conducted a data driven survey in this
domain. (Supervisor - [Prof. Marc Dacier](#))

UNDERSTANDING THE SECURITY IMPLICATIONS OF THE 'APPIIFICATION' TREND IN THE CYBER-PHYSICAL CONTEXT | [EURECOM](#)

Reviewed the current State-of-the-art of CPSs and their security issues in
general. Analysed the present situation of Android applications for the
Industrial Controlled Systems and reversed a small sample of Android
applications for security issues. (Supervisor - [Prof. Davide Balzarotti](#))

MULTIMODAL DATASET ANNOTATION | [LTI](#), [CARNEGIE MELLON UNIVERSITY](#)

Annotated YouTube Videos for Multimodal Corpus of Sentiment Intensity
and Subjectivity.

BIO-SIGNALS EMOTION DETECTION | [BACHELOR'S MAJOR PROJECT THESIS](#)

Investigated the use of Bio-signals for human emotion detection. Derived
features from different brainwaves of the ECG signal and used them to train
the system using supervised learning methods.

HINDI SENTIMENT ANALYSIS | [BACHELOR'S MINOR PROJECT THESIS](#)

Latest tweets in Hindi language were collected for a product for sentiment
extraction, which were then aggregated to give an overall opinion of the
product. Project was awarded for the 'Best Research Poster' in college.

REFERENCES

Available upon request