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in Viswak Hanumanth

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Last updated: 19/06/2020

Viswak Hanumanth

Education

2016–2020 **Indian Institute of Technology Patna**, *Bachelor of Technology in Computer Science and Engineering*, GPA: 9.08/10.

2013–2015 **Senior Secondary, CBSE, SVMHSS, Anandasramam, Salem, 96%**.

Experience

May 2018 - **Google Summer of Code Intern**, *The HoneyNet org.*

- Aug 2018
 - The HoneyNet org is a famous cyber-security based open source organization.
 - Completed my GSoC 2018 on the project SNARE/TANNER under this org.
 - The details of the project are given below in the projects section.

Aug 2018 - **Core member, Norwegian chapter**, *The HoneyNet org*, Michigan, USA.

- current
 - Currently a member of the HoneyNet org and hold collaborator rights on the repository of one of their projects.

Achievements

ACM-ICPC Secured 18th place in ACM-ICPC Kanpur regionals 2019.

- Comp coding
 - Candidate Master(Purple) on Codeforces and 5 star(Yellow) on Codechef.
 - Received 100% Scholarship on Codechef's CCDSAP certification exam by securing college rank 1 in August long-challenge 2019.

Projects

Aug 2019 - **Placing EV charging points in smart cities of future India**,

June 2020 Under Dr. Samrat Mondal, IIT Patna (*C++*, *Algorithms*, *Data Structures*).

- Created a mathematical model different from the pre-existing simulation models for the "Multi-objective optimization charging point placement problem".
- Worked on optimal analysis, proof of the NP-hardness and created an exponential time optimal algorithm for optimal comparison.
- Created an approximate greedy algorithm and observed an approximation factor of 1.67 after testing with several generated test-cases.

Dec 2017 - **SNARE-TANNER**,

current Under Mentorship of *Evgenia Tokarchuk* and *Lukas Rist*.

(*Python, Aiohttp, JWT, HTML, CSS*).

- An open source python based web-application honeypot aimed at capturing maliciousness all over the web.
- Reconstructed the code base, created unittests, migrated low-level deprecated server to a high level aiohttp web-server.
- Improved the analyzing technique of the honeypot by creating heuristic decision binary-trees making the detection process more meaningful and sustainable.
- Created authorization for its API using JWT, to secure the honeypot's detection data, which was previously not secure.
- Implemented location info in the session stats using open source ip-to-geo database, thus showing the location of every session done.

Technical Skills

Languages C/C++, Go, Python, HTML/CSS, Sql, \LaTeX .

Tools and Libraries Git, Docker, Django, Kali pen-test tools, Sony Vegas, Blender.

Courses

Computer Science Deep Learning, Cryptography, Advanced Machine Learning, Artificial Intelligence, Networks, Secure system design, Operating Systems, Databases, Computer Architecture, Formal Language & Automata Theory, Programming and Data Structures, Algorithms, Switching Theory, Innovation Design Lab.

Mathematics Linear Algebra and ODE, Real and Complex Analysis, Partial Differential Equations, Discrete Mathematics, Probability Theory.

Others Macro, Financial economics, Financial analytics.

Position of Responsibility

2017 - 2020 **Coordinator**, *Cyber Security*, NJACK(Computer club), IIT Patna.

- Created cyber security branch of the club, to increase awareness about maliciousness, attacks and the need of security.
- Conducted lectures on Linux security, popular attacks and protective measures.

2018 - 2020 **Mentor**, *Institute Student Mentorship Programme*.

- Academic guide to four freshmen year students over the period of two years.