

GAGAN CHANDAN

Phone: +91 994-544-7761

Email: gaganchandan341@gmail.com

Website - <https://gaganchandan.com>

GitHub - <https://github.com/gaganchandan>

RESEARCH INTERESTS

Program Analysis, Formal Methods, Automated Theorem Proving, Functional Programming

EDUCATION

B.Tech in Computer Science and Engineering

PES University

November 2022 – Present

Bengaluru, India

EXPERIENCE

Student Head

Feb 2023 - Present

Centre for Information Security, Forensics and Cyber Resilience, PES University

Bengaluru, India

- Participated in multiple national and international Capture The Flag (CTF) competitions, focusing on Reverse Engineering and Binary Exploitation
- Taught workshops on Reverse Engineering, Cryptography and Steganography for undergraduate students of all semesters.
- Assisted in teaching and lab setup for Cybersecurity courses offered to final year undergraduates and M.Tech students.
- Conducted hackathons and CTF competitions for over 300 students.

TALKS AND WORKSHOPS

Introduction to Reverse Engineering

PES University

October 2023

Bengaluru, India

- Talk followed by hands on session for over 200 undergraduates

Introduction to Cryptography and Steganography

PES University

April 2023

Bengaluru, India

- Interactive Workshop for over 100 undergraduates

ACHIEVEMENTS

Capture The Flag

ctftime.org

- 2022 - Annual ranking of 8th out of 4392 nationally and 190th out of 38050 globally with team ISFCR PESU (<https://ctftime.org/team/166645>)
- 2021 - Annual ranking of 15th out of 4392 nationally and 203rd out of 36811 globally with team Ashes (<https://ctftime.org/team/155001>)

PROJECTS

pocket

A compiler for a procedural, statically typed programming language written in OCaml

<https://github.com/gaganchandan/pocket>

solveit

A simple SAT solver for propositional logic written in Haskell

<https://github.com/gaganchandan/solveit>

goto-lang

An interpreter for a minimalistic programming language written in OCaml

<https://github.com/gaganchandan/goto-lang>

TECHNICAL ABILITIES

Programming Languages:

Proficient in: Ocaml, Haskell, Python, C

Familiar with: x86 assembly, C++, Lua, JavaScript, Java, Rust

Tools and Technologies:

Ghidra, Pwntools, GDB, AFL++, Atheris, angr, Z3, Lex, Yacc, LLVM,

Coq, Nmap, WireShark, MetaSploit, BurpSuite, Linux, Git, Docker

Skills:

Functional Programming, Compiler Design, Reverse Engineering,

Fuzzing, Binary Exploitation, Exploit Development, Penetration Testing

ADDITIONAL SKILLS

Languages:

English (Fluent)

Kannada (Native language; Fluent)

Hindi (Working knowledge)

OTHER INTERESTS

Football, Distance Running, Swimming, Chess, Basketball, Table Tennis