

# GAGAN CHANDAN

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Website - <https://gaganchandan.com>

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

## RESEARCH INTERESTS

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

## EDUCATION

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**B.Tech in Computer Science and Engineering**

PES University

November 2022 – Present

Bengaluru, India

## EXPERIENCE

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**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

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**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

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**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

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**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

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### **Programming Languages:**

Proficient in: Ocaml, Haskell, Python, C

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

### **Tools and Technologies:**

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

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

### **Skills:**

Functional Programming, Compiler Design, Reverse Engineering,

Fuzzing, Binary Exploitation, Exploit Development, Penetration Testing

## ADDITIONAL SKILLS

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### **Languages:**

English (Fluent)

Kannada (Native language; Fluent)

Hindi (Working knowledge)

## OTHER INTERESTS

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