

CHINMAY DESHPANDE

CONTACT INFORMATION

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Github <https://github.com/chinmaydd> **Blog** <https://chinmaydd.in>

INTERESTS

My primary area of interest is **Computer Security**. I like to work on low-level stuff related to **operating systems and reverse engineering**. I am also passionate about **binary analysis** using symbolic execution and formal program analysis techniques. I have been recently working on understanding the **Windows** operating system internals.

EDUCATION

National Institute of Technology Karnataka, Surathkal 2013 - 2017
Bachelor of Technology in Information Technology GPA: 8.87/10

EXPERIENCE/PROJECTS

McAfee Software Development Engineer, Detection Research
Advanced Threat Defense (Windows Sandbox) *June 2017 - Present*

- The team works on analyzing malware for Windows. I focus on developing system modules to improve replication and detection of PE and non-PE samples in our environment. I also research embedded script-based 0-day techniques found in the wild.
- **Skills acquired:** Windows operating system internals, industry-based malware research, binary sandboxing, efficacy testing, dynamic behavioral analysis.

Rune - Symbolic Execution Engine Developer
Radare Summer of Code '17 | radare2 *June 2017 - Present*

- **Contributions:** Memory module implementation to handle single-byte symbolic support using the concept of arbitrary length bitvectors modeled as ranges, Explorer module to allow pre-defined choices at branches.
 - Mentor for Radeco, a radare2-based decompiler project for Google Summer of Code 2018. The project involved implementing radecoIR to AST conversion which is the final stage of the decompilation pipeline.
 - **Skills acquired:** System Design, use of SMT Solvers in reverse engineering, in-depth understanding of binary/program analysis, decompiler theory and Rust.
- Links:** <https://github.com/radare/rune>

SKILLS

- **Languages** C/C++, Rust, Python, Ruby, Javascript
- **Software** IDA, radare2, gdb, OllyDbg, z3, Yara, WinDbg