Shreeyash Pandey

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http://github.com/bojle

Education

- **G.H. Raisoni Institute Of Engineering And Technology** — Nagpur, India
  Bachelor of Engineering in Computer Science — *Aug. 2019 – Current*
- **Arya Gurukul International** — Navi Mumbai, India
  Higher Secondary Certificate; Percentage: 80.40 — *June. 2017 – April. 2019*
- **St. Xavier High School** — Thane, India
  Secondary School Certificate; Percentage: 90.20 — *June. 2016 – April. 2017*

Projects

- **Reverse Engineering a USB Gaming Mouse** — Python, hidapi, Wireshark
  https://github.com/bojle/evofox-phantom
  Bought a configurable Gaming Mouse only to learn that the configuration tool is not available for Linux. Used Wireshark to sniff packets sent to the mouse on USB, noted what packets changed the modes of the LEDs. Used Python along with Hidapi to send Mode Switching packets to the device.
- **Atari 2600 Emulator** — C, libSDL
  https://github.com/bojle/atari2600e
  An emulator I wrote for the Atari 2600 VCS as "Mini Project" submitted in college. It implements all legal 6502 instructions and supports the NTSC TV color specification. Compliant to the original VCS, it has been tested with Pong. Contains a 6502 emulator inside.
- **Edd - A Line Based Text-Editor** — C
  https://github.com/bojle/edd
  A Line based text-editor of ye olde tymes written entirely from scratch. Supports Regular Expression based search and replace, unlimited undos and redos, prompt-string Hotplugging and More in under 3000 sloc.

Technical Skills

- **Programming Languages**: C, C++, Bash (Shell Scripting), Python, Awk, 6502 Assembly
- **Markup Languages**: HTML, Markdown, JSON, LaTeX
- **Other**: Linux, Linux Device Drivers, Git, Github, GNU Coreutils (grep, sed etc.), GNU Binutils, GDB, Valgrind, Wireshark, Make, CMake, Regular Expressions
- Excellent Analytical and De-bugging skills through regular use of debuggers and memory-checking utilities.
- Comfortable with IDEs and Console/Terminal development cycle.
- Regularly use shell scripts and programs (curl, for example) to automate manual time-consuming tasks.
- Knowledge of Computer Architectures and ISAs like ARM, x86, MIPS.
- Knowledge and experience of Arduino (ATmega 328P) and STM32 (ARM Cortex-M3) boards and communication interfaces like USB, SPI, UART, I^2C
- Experience of reading Hardware Manuals and Specification Sheets.