Christopher Cohen

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EDUCATION   ***Graduating May 2021***

Purdue University   **West Lafayette, IN**   **Fall 2017 – Present**
- Computer Science – **3.83 GPA**
    - *Security and Software Engineering Tracks*
- Purdue Dean's List & Purdue Semester Honors   **Fall 2017 - Present**

TECHNICAL SKILLS
- Software/Hardware
    - UNIX, VSCode, PyCharm, IntelliJ, VIM, Anaconda, Android Studio, Raspberry Pi
- Computer Programming and Markup
    - Python, C, C++, Java, Javascript, Bash, ARM Assembly, HTML, LaTeX, CSS, Lex/Flex, Bison/Yacc, ReactJS

PROFESSIONAL & EDUCATIONAL EXPERIENCE

Naval Surface Warfare Center, Crane Division   **Crane, IN**   **May 2019 – Aug. 2019**
- Currently hold a valid 'secret' level security clearance.
- Improved US Navy missile sustainment efforts by upgrading an existing natural language processing algorithm to process failure databases.
- Patent pending for the program with my name included.

Classes Taken
- **CS25200 – Systems Programming**   **Aug. 2019 - Present**
    - Assembled a robust memory allocation library, fully functional terminal shell, and HTTP/HTTPS web server from scratch in C.
- **CS30700 – Software Engineering**   **Aug. 2019 - Present**
    - Designed and constructed a front-end web app using ReactJS, and worked with 5 others to create a Twitter/Reddit hybrid.
- **CS25100 – Data Structures and Algorithms**   **Jan. 2019 – May 2019**
    - <u>Data Structures:</u> stacks, heaps, queues, trees, hash maps, etc.
    - <u>Algorithms:</u> big-O, sorting, optimal tree/graph traversal, etc.
    - Programmed in Java to create programs for queuing, red-black trees, graph traversal, and hashing.
- **CS25000 – Computer Architecture**   **Jan. 2019 – May 2019**
    - Built circuitry and learned how computers work at the lowest level.
    - Programmed printf() from scratch in ARM assembly.

EXTRACURRICULAR INVOLVEMENT & PERSONAL PROJECTS

Sudoku Solver in C++   **January 2019**
- Completed a fully functional sudoku solver to teach myself C++.
- Implemented 5 algorithms that completed 40-50% of boards given.
    - Finished the rest off with a brute-force backtracking algorithm.

Deployed Personal Website in ReactJS   **December 2019**
- Learned about client-sided routing, visual transitions, and dynamically updating the display to equally accommodate desktop & mobile clients.

Purdue University Undergraduate Teaching Assistant   **Aug. 2019 – Present**
- Work in a hands-on lab and teach the concepts needed for a complete understanding of CS25000 - Computer Architecture.