

## Rowan Hart

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### Education

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#### Purdue University, West Lafayette IN

May 2021

Bachelor of Science in Computer Science

CGPA: 3.49/4.0

#### Clearance

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- Active DoD Top Secret Security Clearance

### Technical Skills

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- Linux, Windows, and MacOS hardening, vulnerability analysis, incident response, forensics
  - C++, C, Java, Python, Shell scripting, Javascript, Vue.js web development
  - Reverse Engineering, Exploit development, GTK interface development
  - VMWare ESXi Management, Server and network administration, Docker development and deployment
  - IDA Pro, Binary Ninja plugin development, Angr symbolic execution development

### Relevant Experience

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- **Purdue University Undergraduate Research Assistant** **January 2020 - Present**
    - Developed automated exploit rehosting tools using the angr symbolic execution framework
  - **Purdue University Undergraduate Teaching Assistant** **August 2019 - Present**
    - Maintain the codebase for the code standard linter for C programming courses
    - Taught and assisted students with C programming and debugging skills
    - Developed project specifications and handouts, project and solution source code, and automated test cases
  - **Northrop Grumman Xetron** **May 2018 - August 2020**
    - Performed reverse engineering of operating system internals, developed C/C++ in a large code base
    - Developed an IDA Pro plugin for automated control flow analysis and path emulation for vulnerability research and exploit development
    - Performed vulnerability research on an embedded system and used a variety of techniques to automate analysis
    - Created and hosted a Capture The Flag competition, organized and configured infrastructure and created a series of reverse engineering challenges
    - Extended the X-RAD binary comparison tool with additional functionality for metric acquisition in C++ and python
  - **Purdue University b01lers Capture The Flag Team - Event Coordinator** **August 2017 - Present**
    - Coordinated, developed, and hosted a public CTF competition with over 650 scoring teams
    - Coordinate and create training curriculum development, teaching, and Capture the Flag events to further the skills of team members
    - Solve Challenges in Reverse Engineering, Binary Exploitation, programming, web exploitation, forensics, and steganography
  - **Purdue University CERIAS Collegiate Cyber Defense Competition Team** **August 2017 - May 2018**
    - Wrote automation utilities and harden networks, services, and systems against intrusion using industry-standard security techniques.
  - **Cyber Patriot Team Captain/Co-Captain, LCHS Marine Corps JROTC** **August 2013 - June 2017**
    - Built challenges and virtual environments using VMWare and shell scripting to engage and mentor team members for hands-on learning in a technically challenging environment
    - Created scripts and tools to streamline system hardening, vulnerability analysis, and malware identification and remediation on Windows and Linux systems

### Honors and Awards

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- 1st Place Team member, TAMUCTF **March 2020**
  - 2nd Place Indiana CCDC Team Member **March 2018**
  - DefCamp CTF Finals Qualifying Team Member **September 2017**
  - Purdue Presidential Scholarship Recipient **August 2017**
  - CyberPatriot IX National Finalist Team Captain **August 2016 - May 2017**
  - National Honor Society, LCHS **August 2015 - May 2017**
  - Cyber Patriot Four-time 1st Place State, Four-time 1st Place Regional Team **August 2013 - May 2017**
  - Sandia National Labs Thunderbird Cup 1st Place Team Captain **October 2016 - August 2017**

- National Merit Scholarship Finalist
- Boy Scouts of America Eagle Scout Award

March 2017  
December 2012