

Andrew Fox

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EDUCATION

Purdue University - Computer Science - Security B.S.	Class of 2027
<ul style="list-style-type: none">• Computer Information Technology (Cybersecurity) Minor• Electrical and Computer Engineering Technology Minor	<ul style="list-style-type: none">• Russian Minor• Physics Minor• Mathematics Minor
Carnegie Mellon University - IT Lab Summer Security Intensive	Summer 2025

PROFESSIONAL EXPERIENCE

R&D Intern → Software Development Contractor, Splashtop/Foxpass	Summer 2024 - Present
<ul style="list-style-type: none">• Worked as part of the agile R&D team to fix vulnerabilities and add features• Configured wired networking on outdated hardware to test the company's products• Committed to public Python security repository pysaml2	
Software Development Intern, Komprise	Summer 2022
<ul style="list-style-type: none">• Designed and implemented a log analyzer tool in Python used by many teams in the organization	
Software Development Intern, Full Circle Insights	Summer 2021
<ul style="list-style-type: none">• Solved forgotten problems in the Apex site backend, and built fresh LWC wireframes for new products	

PROJECTS

Cryptographic and Security Research	Fall 2024 - Present
<ul style="list-style-type: none">• Investigated C security paradigms while building an alternative to OpenSSL• Studied discrete math and number theory to implement RSA and other algorithms with C and Bash	
Linux Driver	Fall 2023
<ul style="list-style-type: none">• Wrote a custom interrupt and polling driver for a Raspberry Pi computer	
Language Development	Summer 2023 - 2024
<ul style="list-style-type: none">• Developing a new programming language in C and x86, along with a C unit testing framework	
Java Educational Environment	Winter 2021
<ul style="list-style-type: none">• Wrote a visual Java interpreter to replace an old tool for my high school's computer science program	

ORGANIZATIONS

CERIAS	Fall 2025 - Present
<ul style="list-style-type: none">• Attended talks and lectures, intend to get more involved.	

TECHNICAL SKILLS

Languages:	Tools:	Concepts:
<ul style="list-style-type: none">• C, x86 and ARM Assembly• Python, Django• HTML, CSS, SCSS• C++, Java, C#, Kotlin, Swift• JavaScript, JQuery• Bash• LISP• HDL	<ul style="list-style-type: none">• Git, Github, Bitbucket• Slack, Jira• LLVM and the GCC• LWC, Aura, Apex, VisualForce• Ghidra• Wireshark, OpenSSL• Splunk• Active Directory	<ul style="list-style-type: none">• Secure Coding• Compilers and Interpreters• Operating Systems• Firmware and Drivers• Inference Engines• Reverse Engineering• Testing and Automation• System Administration