

Joshua Nelson

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Education

University of South Carolina , Columbia, SC	May 2021
• Advanced Digital Design (using Verilog)	cse.sc.edu/class/611
• Compiler Construction (using C)	cse.sc.edu/class/531
• Ethical Hacking	cse.sc.edu/class/518

Skills

- Familiar with Python, Rust, Java, C, Bash, JavaScript, SQL
- Knowledge of C++, Haskell, Scheme, x86 Assembly, MIPS
- Technologies: git; make; Travis CI; Linux; SQL Server; Django framework

Experience

Maintainer – Docs.rs	October 2019 - Present
<ul style="list-style-type: none">• Created a deploy system used in production by 600,000 users daily• 2nd-most contributions to docs.rs• Full member of the rust-lang organization	
Software Intern – YottaDB, Malvern, Pennsylvania	December 2019 – Present
<ul style="list-style-type: none">• Design Rust API for an existing C codebase• Work on 100% open-sourced code• Wrap a single-threaded core with a multi-threaded API	
Cyber Security Intern – Cyber Ninjas, Sarasota, FL	May 2019 – July 2019
<ul style="list-style-type: none">• Created a Burp Suite plugin which decoded Protobuf messages• Rewrote a CTF web engine using Azure Functions and JavaScript• Analyzed existing web applications for common security flaws	
Software Intern – McEntire Produce, Columbia, SC	May 2018 – July 2018
<ul style="list-style-type: none">• Created a web-based ticketing system for up to 40 simultaneous users• Designed an SQL Server database of about 1 megabyte for client data• Integrated authentication with AD using LDAP	

Projects

- C compiler, written in Rust: github.com/jyn514/rust-c-compiler
- Web server written in C: github.com/jyn514/threaded-server
- Search tool for GroupMe written in Python: github.com/jyn514/grepme
- Contributed to a Unix shell written in Python: github.com/oilshell/oil

Awards

- **National Merit Scholarship** – top 99.5% on PSAT (awarded from NMSC)
- **Honors Student** – Accepted by University of South Carolina Honors College

Clubs

Association of Computing Machinery (ACM) – <i>Vice President</i>	Aug. 2019 – Present
Cyber Security Club – <i>Chief Technical Officer</i>	Jan. 2019 – Present