Joshua Nelson

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Education

B.S. Computer Science and Mathematics   Expected May 2021
University of South Carolina, Columbia, SC   GPA: 3.86

- 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

- Proficient in Rust, Python, C, Bash, Java, JavaScript, SQL
- Knowledge of C++, Haskell, Scheme, x86 Assembly, MIPS
- Technologies: git, make, docker, cmake, Travis CI, Linux, Django framework

Experience

Co-lead – Docs.rs   October 2019 - Present

- Maintain the docs.rs project and recruited two other team members
- Full member of the rust-lang organization
- Created a deploy system used in production by 600,000 users daily

Team Member – Rustdoc   July 2020 – Present

- Help stabilize intra-doc links
- Implemented intra-doc links for cross-crate re-exports

Software Intern – YottaDB, Malvern, Pennsylvania   December 2019 – Present

- Design Rust API for an existing C codebase
- Work on 100% open-sourced code
- Wrap a single-threaded core with a multi-threaded API

Software Intern – McEntire Produce, Columbia, SC   May 2019 – July 2019

- Created a web-based ticketing system for up to 40 simultaneous users
- Designed a 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/saltwater
- 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) – *Vice President*   Aug. 2019 – Present
Cyber Security Club – *Chief Technical Officer*   Jan. 2019 – May 2020