

Joshua Nelson

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Education

B.S. Computer Science and Mathematics

University of South Carolina, Columbia, SC

- Advanced Digital Design (using Verilog)
- Compiler Construction (using C)
- Ethical Hacking

Expected May 2021

GPA: 3.86

cse.sc.edu/class/611

cse.sc.edu/class/531

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

- Helped stabilize intra-doc links
- Helped make it easier to contribute to the rust compiler
- Worked asynchronously with peers from many different cultures and time zones

Software Developer – YottaDB, Malvern, Pennsylvania

December 2019 – Present

- Designed a Rust API for an existing C codebase
- Implemented various SQL features for Octo, an SQL frontend for the main database
- Improved the continuous integration and deployment systems

Software Intern – McEntire Produce, Columbia, SC

May 2018 – July 2018

- 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
- Link-checker for documentation: github.com/deadlinks/cargo-deadlinks
- 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