

# Christopher Wood

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*Pittsburgh // Michigan*

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## Education

2014–2019 **BSc. Computer Science**, *University of Pittsburgh, Senior - 3.203 GPA.*

- Dean's List: Fall 2016, Spring 2017, Fall 2017, Spring 2018
- Expected: December 2018
- Relevant coursework: Computer Architecture; Algorithms; Compiler Design; Operating Systems; Computer Networks

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## Experience

2018–2018 **Software Engineering Intern**, *Contrast Security*, Baltimore MD.

- Engineered multi-library scraper for a dependency management application using AWS Lambda and Kinesis
- Designed MySQL schema for a dependency management application. Migrated existing data from DynamoDB to Amazon Aurora MySQL Database and implemented queries using SQLAlchemy
- Designed a serverless GraphQL API using API Gateway and AWS Lambda
- Implemented a Go utility to scan Python and Java applications for known vulnerabilities

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## Skills

Languages Java, Python, C, Rust, Ruby, Go

Technologies SQL, Cloud Formation, GraphQL, Flask, WebAssembly, Flex, Bison

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## Projects

2018–Present **Rustfmt**, *contributor*.

- Fixed various high priority bugs that caused Rustfmt to generate invalid code
- Assisted in getting Rustfmt to 1.0 release

2018–Present **sqlparser-rs**, *contributor*.

- Improved error handling during tokenization phase of SQL parsing
- Implemented in Datafusion, a SQL Library for execution against Apache Arrow in Rust

2017 **MiniJava Compiler**, *author*.

- Implemented an optimizing compiler for a subset of the Java programming language
- Implemented various optimizations such as method inlining, and constant propagation
- Generates MIPS assembler

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🔗 <https://github.com/crw5996>