

Josh Robson Chase

Education

2010–2014 **Bachelor of Science, Master of Engineering**, *University of Louisville*.
Computer Engineering and Computer Science

Experience

- 2019–Present **Senior Backend Engineer**, UNDISCLOSED, Remote.
- Translated business logic from PHP-based Account Management service to Rust
 - Managed Docker container, continuous integration, and deployment of the Rust Account Management service
- 2018–2019 **Senior Software Engineer**, IMPERVA INC., Remote.
- Continued development of Rust libraries for security analysis
 - Worked with other engineers on designs and specifications for the next generation of security plugins
- 2015–2018 **Software Engineer**, PREVOTY INC., Remote, Acquired by Imperva.
- Developed HTTP routing and middleware framework in Go
 - Developed JNI bindings for Rust (<https://github.com/jni-rs/jni-rs>)
 - Developed a Rust library to analyze SQL statements for signs of SQL Injection attacks
 - Developed a Rust library for the purpose of unifying Java and C# implementations via FFI
 - Built and managed Docker-based build and deployment pipeline
- 2011–2014 **Network Administrator / Tier Support**, UNIVERSITY OF LOUISVILLE, CECS Dept.
- Maintained university research network consisting of Linux servers and Cisco networking
 - Designed, implemented, and managed an IaaS cloud for the research network
- 2012–2013, **ITEP Intern**, GE HOME AND BUSINESS SOLUTIONS, Louisville, KY.
Three Semesters
- Built automated solution for the installation of Oracle applications in the on-demand cloud using Puppet
 - Converted campus to the Cisco Lightweight wireless system

Skills

Languages Rust, Go, C, C++, Java, Python, Haskell, Ruby, Lisp (Common and Scheme), Javascript, Typescript, Bash
Automation GitLab-CI, Travis-CI, Jenkins, Amazon Web Services (S3, RDS, ECS), Chef, Puppet, Ansible
Development Tools Git, GitHub, GitLab, Gerrit, Docker, Vagrant, Make, CMake

Projects and Contributions

- JNI-rs Rust crate to support the Java Native Interface (JNI), allowing easier FFI from Java to Rust
<https://github.com/jni-rs/jni-rs>
- Polymer-kb Modular split keyboard. PCB designed in KiCAD, firmware written in Rust for STM32F1.
<https://gitlab.com/polymer-kb>
- Open Source Contributions
- Rust Language Server (<https://github.com/rust-lang/rls>)
 - Rustfmt (<https://github.com/rust-lang/rustfmt>)
 - HTML5Ever (<https://github.com/servo/html5ever>)
 - CBindgen (<https://github.com/eqrion/cbindgen>)
 - VSCode-RLS (<https://github.com/rust-lang/vscode-rls>)
 - Antlr4 (<https://github.com/antlr/antlr4>)