Robert Schabacker

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Education

Stevens Institute of Technology, Hoboken NJ
M.S., Computer Science, GPA 4.0   Expected Graduation May 2022
B.S., Computer Science, GPA 3.992   Expected Graduation May 2022

Skills

Software: Proficient in Python, Java, Rust, C/C++, JavaScript, Bash
Coursework Includes: Compiler Design & Implementation, Operating Systems, Concurrent Programming, Database Systems, Formal Verification of Software, Advanced Programming in the UNIX Environment

Work Experience

Verisk Analytics, Jersey City NJ (Remote)
Software Engineering Intern   June 2021 - August 2021
- Refactored an HTTP utility library used in 6 Java projects to provide a common interface for developers across 3 teams
- Built a Java client to integrate with an external API, converting requests and responses to/from XML
- Developed, tested, and deployed a solution to a production issue involving incorrect data in over 4 million customer records

Prudential Financial, Newark NJ (Remote)
Software Engineering Intern   June 2020 - August 2020
- Unified DevOps onboarding process for several tech stacks by developing a dynamic web form to generate and update configuration files
- Saved 5 team members multiple meetings for every pipeline provision by automating the creation and committing of files to version control
- Used Node.js and Docker to deploy the web app through an AWS pipeline

Stevens Institute of Technology, Hoboken NJ / Remote
Course Assistant   January 2020 - December 2021
- Courses: Discrete Structures, Automata and Computation, Compiler Design & Implementation
- Taught a weekly lab section with review problems and programming assignments

Jackson Education, Denville NJ
App Developer   March 2018 - June 2020
- Developed application to notify customers of their scheduled appointments, allowing them to confirm appointments and take short assessments
- Created iOS application frontend in Swift, built backend using Node.js and Firebase

Projects

Proof-of-Concept Programming Language   Spring - Summer 2021
- Developed a parser, typechecker, and compiler frontend for a C-like programming language, with generic data structures and functions implemented in a novel way
- Implemented the compiler in Rust, using the LLVM infrastructure for optimization

Extended-SQL Query Processor   April - May 2021
- Developed a query processor that supports basic SQL features, as well as an extension to SQL allowing for more efficient and readable queries
- Implemented the parsing and query processing logic in C++

Altice University Hackathon (Third Place)   September 2019
- Redesigned the user interface of the Altice One iOS app and implemented voice commands to improve customer satisfaction
- Developed a prototype in Swift
- Presented our ideas to executives of Altice, Infosys, and Google as a team of two