Robert Schabacker

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Education

Stevens Institute of Technology, Hoboken NJ   Expected Graduation May 2022
Bachelor of Science, Computer Science, minor in Mathematics, GPA 3.98
Coursework includes: Software Development Process, Compiler Design and Implementation, Systems Programming, Programming Languages, Concurrent Programming, Computer Vision, Natural Language Processing

Skills

Software: Comfortable in JavaScript, OCaml, Python, Bash, Swift, Firebase Platform
Certifications: Google Cloud Platform Essentials   February 2019

Work Experiences

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
   • Used Node.js and Docker to deploy the web app through an AWS pipeline

Stevens Institute of Technology, Hoboken NJ / Remote
Course Assistant: Automata and Computation   August 2020 - December 2020
   • Helped students with assignments about Automata Theory, Computability Theory, Turing Machines, Algorithmic Complexity
   • Held weekly office hours with review problems

Course Assistant: Discrete Structures   January 2020 - May 2020
   • Helped students with assignments and programs about Logic, Set Theory, Inductive Proofs, Graph Theory, Number Theory
   • Taught a weekly lab section with review problems and programming assignments in Scheme

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
   • iOS application developed in Swift, Backend built with Firebase using Node.js

Projects

Compiler for Small Imperative Language   Spring 2020
   • Implemented a parser, typechecker, frontend, and optimizing backend for an imperative programming language as part of a class on compiler design
   • Compiler written in OCaml using LLVM as a middle-end and x86 as the target architecture

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

Altice - Infosys University Hackathon (Third Place)   November 2018
   • Implemented better accessibility options in websites, mobile apps, and Internet of Things devices to improve customer acquisition rates and avoid potential lawsuits
   • Developed a prototype using JavaScript and CSS
   • Presented our ideas to executives of Altice and Infosys as a team of four