

Edward Minnix III

Programming Language Tinkerer · Software Developer

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Objective

Seeking a position working on the implementation of a compiler or tooling to verify the correctness and safety of software.

Education

2019 – 2021 **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.

2016 – 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.

- GPA – 3.79, Dean's List since Fall 2016.
- Member of Upsilon Pi Epsilon: International Honor Society for the Computing and Information Disciplines

Research Experience

8/2020 – Present **Automatic Program Analysis for Commutativity**, *Stevens Institute of Technology*, Hoboken, NJ.

- Worked with Professor Eric Koskinen.
- Studied the commutativity of methods of data structures, in order to better understand how operations may be reordered or parallelized.
- Used Why3 to model data structures, their methods, and predicates required to verify the commutativity of operations.

Work Experience

5/2018 – 8/2018 **Software Development Intern**, *Unisys*, Blue Bell, PA.

- 5/2019 – Present
- Assisted in developing a chatbot to automate common IT helpdesk tasks.
 - Worked on a telemetry system for virtual machines to send system information to monitoring servers.
 - Developed a tool for parsing changelogs written as Markdown files and converting them to JSON objects in order to generate release notes.
 - Used Agile practices, such as regular Scrum meetings and used Visual Studio Team Services to track tasks, features, bugs and releases.
 - Practiced Test Driven Development by using tests to verify correctness and writing tests before code.

1/2019 – 5/2019 **Teaching Assistant**, *Programming Languages*, *Stevens Institute of Technology*, Hoboken, NJ.

1/2020 – 5/2020

Relevant Course Work

Fall 2020 **Reverse Engineering**, *Stevens Institute of Technology*, Hoboken, NJ.

Spring 2020 **Compiler Design & Implementation**, *Stevens Institute of Technology*, Hoboken, NJ.

Spring 2019 **Formal Modeling & Analysis**, *Stevens Institute of Technology*, Hoboken, NJ.

Spring 2018 **Type Systems for Programming Languages**, *Stevens Institute of Technology*, Hoboken, NJ.

Skills

Languages	Python, OCaml, C++, C#, Haskell, C, Erlang, F#, Clojure
Verification Tools	Why3, Alloy, Coq, Liquid Haskell, Dafny
Architectures	x86, Web Assembly