

# Carson Radtke

Software Engineer | PL Enthusiast

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## WORK EXPERIENCE

### Software Engineer

(September 2021 - Present)

GrammarTech

I work on the CodeSonar product at GrammarTech. I write various checkers to look for evidence of bugs, undefined behavior, and standards violations in C and C++ software. I also work on the front-end team that ensures the parser used by CodeSonar is able to handle a variety of flavors of C and C++.

*Skills: C++, Python, Static Analysis, Mentoring, Research*

↪ <https://www.grammatech.com>

### Compiler Engineer

(June 2021 - Present)

Astronautics

I lead the compiler project for Astronautics. We are tasked with delivering a compiler capable of compiling a subset of C into a proprietary instruction set designed by Astronautics. I wrote the compiler in TypeScript and manage the CI/CD pipeline in GitLab. Since June I have been mentoring an intern.

*Skills: Compilers, TypeScript, CI/CD, GitLab, React.js*

↪ <https://www.astronautics.com>

### Software Development Intern

(January 2019 - June 2021)

CaraFlow

As an intern at CaraFlow I worked on both hardware and software projects. I designed cloud solutions for REST APIs and IOT device communication. I also implemented features and worked on bugs for the data capture solution, Qyk.

*Skills: TypeScript, C#, Microsoft Azure, Angular, Ionic Framework*

↪ <https://www.carafLOW.com>

## EDUCATION

### University of Wisconsin, Milwaukee

(September 2018 - May 2021)

BS, Computer Science

Electives: Compilers, Computer Graphics, Computer Security, Machine Learning

### University of Wisconsin, Milwaukee

(September 2018 - May 2021)

BA, Mathematics

Electives: Abstract Algebra, Chaos Theory, Differential Geometry, Real Analysis

## PROJECTS

### WIP: Abeona

An Internet Explorer

The goal of this project is to create a Python package that is capable of parsing HTML and creating understandable syntax trees while providing intuitive ways of scraping data.

↪ <https://github.com/carsonRadtke/abeona>

## Portfolio

Personal Website

A simple static webpage hosted on Azure. Contains a fun animation and links to various social media and my resume.

↪ <https://nosrac.me>