

# Stephen Hunter Barbella

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## Education

**Vanderbilt University**, Nashville, TN  
Bachelor of Science, Computer Science

May 2021

**Minors:** Engineering Management, History of Art

**Major GPA:** 3.59/4.00

**Selected Coursework:** Compiler Construction, Programming Languages, Reverse Engineering, Principles of Operating Systems I, Mobile and Wireless Networks, Resilient Distributed Computing, Discrete Structures, Intermediate Software Design, Technology Strategy, Program and Project Management, Systems Engineering, Modern Architecture

## Professional Experience

**InterSystems Corporation**, Cambridge, MA

June 2019 - August 2019

*Software Engineering Intern*

- Created a tool for automating data requests while allowing for GDPR compliance
- Worked with the Learning Services Department to produce a software solution to fulfill their needs
- Leveraged the InterSystems IRIS Database Platform and the ObjectScript Programming Language

**Saavn LLC**, New York, NY

July 2018 - August 2018

*Strategy and Operations Intern*

- Performed strategic research for the Chief Operating Officer and the Chief Executive Officer
- Audited business plans and helped implement the OKR Framework
- Researched software solutions for streamlining operations
- Initiated a weekly strategy newsletter for C Level employees

## Leadership Experience and Campus Involvement

**Vanderbilt University Computer Science Department**, Nashville, TN

August 2019 - Present

*Programming Languages TA*

- Hold office hours to assist students with object oriented, functional, and logical programming problems
- Work closely with the professor to grade weekly projects and monthly exams

**Vanderbilt Free and Open Source Society**, Nashville, TN

May 2018 - Present

*Cofounder and Treasurer*

- Chartered the club and helped manage the funds of the organization
- Educated new members about free and open source software and how to contribute
- Contributed to Rust-Lang and the official Rust-Lang Reference

## Projects

**Monet | Personal Project | C++, Interpreting, Functional Programming, Language Design**

May 2019-Present

- A high-level interpreted programming language that supports functional features and a robust standard library

**Open Source Contributions | Rust-Lang, Rosetta Code | Rust, Common Lisp, Algorithms**

March 2019-Present

- Patched bugs in the Rust compiler and contributed to Common Lisp solutions in Rosetta Code

**Capture the Flag | Personal Project | C, Software Security, Linux command line tools**

February 2019

- A challenge for members of Vanderbilt Free and Open Source Society to learn important software tools

**NextSlide | VandyHacks V | Python 3, Regex, tkinter**

November 2018

- A presentation tool that parses PowerPoint files and allows for automatic slide changing from vocal recognition

## Technical Skills and Proficiencies

- Programming Languages: C++, Java, Rust, Python, Common Lisp, Haskell, C, HTML, PHP, shell scripting, object oriented and functional programming
- Software: Git, GDB, Travis-CI, GitHub, Linux, BSD, Mac OS, Windows, and Microsoft Office Suite
- Conversant in the Italian language
- Interests: Travel, swimming, Classic Rock, cooking