Stephen Hunter Barbella

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Education

Vanderbilt University, Nashville, TN   **May 2021**
Bachelor of Science, Computer Science
Minors: Engineering Management, History of Art
Major GPA: 3.63/4.00
Selected Coursework: Programming Languages, Principles of Operating Systems I, Mobile and Wireless Networks, Resilient Distributed Computing, Discrete Structures, Intermediate Software Design, Technology Strategy, Program and Project Management, Modern Art and Architecture in Paris

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
- Designed a capture the flag to teach new members how to use modern software development tools

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, Python, Common Lisp, 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