

Stephen Hunter Barbella

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Professional Experience

Real Time Innovations

Sunnyvale, CA and Remote

Software Engineer II, API Team

June 2021 - Present

- Architect a Python API of RTI Connex DDS to enable the single most requested feature by customers
- Create a testing plan that includes automation to ensure a production ready solution by reaching 90% coverage
- Increase reliability in APIs and solving at least 70 release blocking issues (C, C++, Java, Modern C++)
- Lead cross team initiatives such as install testing and large-scale code refactors
- Educate internal and external customers around the newly created Python API
- Create documentation for customers and internal developers

Software Engineer Intern, API Team

May 2020 - August 2020

- Developed examples and tests for an experimental Python API
- Taught colleagues how to maximize performance and reliability for the experimental Python API

InterSystems Corporation

Cambridge, MA

Software Engineering Intern

June 2019 - August 2019

- Led the creation of a tool for automating data requests while within the regulations of GDPR
- Reduced time to complete a request from two hours to under one minute

Saavn LLC

New York, NY

Strategy and Operations Intern

July 2018 - August 2018

- Promoted vision alignment for C Level employees by initiating a weekly strategy newsletter
- Performed competitive strategic research for the Chief Operating Officer and the Chief Executive Officer
- Proposed and implemented the OKR framework to improve metrics for data-driven business decisions
- Researched software solutions for streamlining human resource related operations

Education

Vanderbilt University

Nashville, TN

Bachelor of Science, Computer Science

August 2017 - May 2021

Minors: Mathematics, Engineering Management, History of Art

Selected Coursework: Principles of Operating Systems I, Resilient Distributed Computing, Programming Languages, Compiler Construction, Principles of Cloud Computing, Reverse Engineering, Mobile and Wireless Networks

Campus Involvement

Vanderbilt Free and Open-Source Society

Nashville, TN

Cofounder, Treasurer

April 2018 - May 2021

- Chartered the club and managed the funds of the organization
- Contributed to open-source projects such as the Rust language and Rosetta Code
- Designed a capture the flag to teach members how to use modern software development tools such as git and vim
- Educated new members about free and open-source software and how to contribute

Vanderbilt University Computer Science Department

Nashville, TN

Programming Languages Teaching Assistant

August 2019 - May 2020

- Held office hours to assist hundreds of students with object oriented, functional, and logical programming
- Graded weekly projects and monthly exams

Technical Skills and Proficiencies

- Programming Languages: Python, C, C++, Java, Bash, Rust, Common Lisp, Haskell, HTML, PHP, and functional programming
- Software: Git, GDB/LLDB, Travis-CI, Jenkins, GitHub, Linux, MacOS, Windows, and Microsoft Office Suite
- Italian (Intermediate)
- Interests: Music Production, Travel, Cooking, Homebrewing