Stephen Hunter Barbella

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linkedin.com/in/stephen-hunter-barbella | github.com/hman523 | **Eligible to work in Denmark**

Education

Københavns Universitet   København, Danmark
Master of Science in Computer Science   *September 2024 – June 2026*

- **Selected Completed Coursework:** Advanced Programming, Machine Learning A, Advanced Algorithms and Data Structures, Advanced Computer Systems
- **Selected In Progress Coursework:** Semantics and Types, Signal and Image Processing, Proactive Computer Security, Program Analysis and Transformation
- **Areas of Interest:** Programming Languages, Digital Signal Processing, Operating Systems, Functional Programming

Vanderbilt University   Nashville, TN
Bachelor of Science in Computer Science   *August 2017 – May 2021*

- **Minors:** Engineering Management, Mathematics, 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

Professional Experience

Real Time Innovations   Sunnyvale, CA and Remote
Software Engineer II, API Team   *June 2021 – February 2024*

- Designed a Python API of RTI Connext DDS to enable the single most requested feature by customers
- Created an automated testing plan to ensure a production ready solution to reach 90% code coverage
- Increased reliability in APIs and solved at least 70 release blocking issues (C, C++, Java, Modern C++)
- Led cross team initiatives such as install testing and large-scale code refactors
- Educated internal and external customers around the newly created Python API
- Created documentation for customers and internal developers

Software Engineer Intern   *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 Engineer Intern   *June 2019 – August 2020*

- 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 City, 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

Technologies

Programming Languages: Python, C, C++, Haskell, Java, Shell Scripting, Rust, Common Lisp

Software: Git, GDB/LLDB, Travis-CI, Jira, GitHub, Linux, MacOS, Windows, and Microsoft Office Suite, LaTeX

Languages: English (Native), Italian (Intermediate), Danish (Beginner, Learning)

Interests: Music Production, Travel, Cooking, Homebrewing, Board Games