

Thomas Hill Almeida



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tommoa



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Education

Masters | Software Engineering

University of Western Australia | 2019–Nov 2020

- GPA: 5.6

- WAM: 72.4%

Software Design Project	90%
Testing and Quality Assurance	Distinction
Computational Modelling	Distinction

BSc | Software Engineering

University of Western Australia | 2017–2019

- GPA: 5.5

- WAM: 70%

Data Structures and Algorithms	89%
Networks and Security	91%
Digital Embedded Systems	91%
High Performance Computing	Distinction

Experience

University of Western Australia | unit tutor

February 2020 – June 2020

- tutored 30 students in data structures and algorithms using **Java** under Amitava Datta

Arista Networks | software engineering intern

Supervisor: Alex Webster | November 2019 – February 2020

- created a custom Linux image using **Yocto** for network enabled bootable USB drives
 - reduced fix-time for devices affected by corrupted images by approximately 1 day
 - reduced regression test time by 20 minutes
- developed tools in **Python** to search for vulnerabilities in Arista operating systems
 - opened approximately 1500 bugs to be triaged

Arista Networks | software engineering intern

Supervisor: Alex Webster | January 2019 – February 2019

- developed tools in **Python** to discover layer 1 network topology, allowing for previously impossible topology analysis
- researched and developed methods in **Python** for creating network-accessible USB boot drives to reduce testing time

Talis Consultants | undergraduate technician

Manager: Granger Bennett | 2016 – 2018

- developed noise management solution Nexus in **C#**
 - in use by Fortescue Metals Group, Alcoa and others in daily operations

Projects

relibc | Maintainer

- C standard library written entirely in **Rust**
- wrote the `stdio.h` implementation

small | Author

- stack-based string implementation in **Rust**
- usage in **ion shell** increased performance by 30%

process memory injector | Author

- library for manipulating the memory of other processes in **Rust**

Other

Computers

- UWA Programming Competitions Society
 - vice president | 2019 – 2020
 - secretary | 2020 – Present
 - committee member | 2018 – Present
 - lecturer | 2017 – Present
 - competitor | 2017 – Present
- University Computer Club
 - treasurer | 2019 – 2020
 - vice president | 2018 – 2019
- ICPC
 - Divisionals finalist 2019
 - Divisionals finalist 2018
 - Divisionals finalist 2017

Music

- Audition choirs
 - The Winthrop Singers
 - bass section | 2017 – Present
 - West Australian Chamber Choir
 - bass section leader | 2019 – 2020

References available upon request