

Thomas Hill Almeida



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tommoa



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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**

Experience

University of Western Australia | unit tutor

February 2020 – June 2020

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

Arista Networks | software engineering intern

Supervisor: Alex Webster (Technical Lead) | November 2019 – February 2020

- created a custom Linux image using **Yocto** for network enabled bootable USB drives
 - reduced theoretical fix-time for devices affected by corrupted images by approximately 1 day
 - reduced theoretical regression test time by 10 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 (Technical Lead) | 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 (Noise Section Leader) | 2016 – 2018

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

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

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