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
- 4th largest contributor to date

small | Author & Inventor

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

process memory injector | Author & Inventor

• library for manipulating the memory of other processes in Rust

Experience

University of Western Australia | unit tutor

February 2020 - June 2020

• recieved **commendation** for tutoring 30 students in data structures and algorithms using Java under Prof. 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 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 | 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

Education

Masters | Software Engineering

University of Western Australia | 2019-Nov 2020

GPA: 5.9

• WAM: 74.5%

Software Design Project 90% Computational Modelling Distinction Computer Vision Distinction Risk, Reliability and Saftey Distinction Testing and Quality Assurance Distinction

BSc Software Engineering

University of Western Australia | 2017-2019

- GPA: 5.5
- WAM: 70%

Data Structures and Algorithms	89%
Digital Embedded Systems	91%
Networks and Security	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

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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