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: 6.0
- WAM: 75.2%

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|-------------------------------|-------------|
| 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 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

- International Collegiate Programming Competition
 - 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