Thomas Hill Almeida

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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 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

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