

## Employment history

- 2015-11**      **Research intern** at Pawsey Supercomputing Centre  
Developed tools to allow content creators to easily arrange 3D scenes with models of the recently discovered wrecks of HMAS Sydney (II) and HSK Kormoran, animate these scenes, and render them on the Magnus supercomputer near Curtin University.
- 2014-02**      **Casual academic** at Curtin University  
Tutored classes for Unix and C programming, as well as first- and second-year software engineering, in addition to administrative tasks such as marking tests and assignments.
- 2015-01/2015-06**      **Technical operator** at Diamond Cyber  
Improved the security of the organisation's upcoming public website, investigated secure communications platforms for penetration testing, and built a workstation for training new employees.
- 2014-04/2015-07**      **Engineering outreach volunteer** at Curtin University  
Demonstrated introductory programming skills using the Raspberry Pi computer to eleven groups of high school students from years nine to twelve, together with Engineers Without Borders Australia.
- 2014-03/2014-05**      **Junior web developer** at Aspermont Limited  
Supported and maintained a legacy content management system using ASP, VBScript, and Microsoft SQL Server, and aided with the migration of applications to Amazon Web Services and ASP.NET.
- 2009/2010**      **Software developer** at Willetton Senior High School  
Built and maintained web applications using PHP and MySQL, to enable staff to allocate classrooms, buses, and other facilities, and to allow English students to review texts that they have studied.

## Education

- 2013**      **Curtin University**  
Bachelor of Science (Computer Science)  
Course weighted average: 90.34
- 2008/2012**      **Willetton Senior High School**  
Western Australian Certificate of Education  
Australian Tertiary Admission Rank: 98.85

## Awards and achievements

2015	ACS Foundation ICT Scholarship (Diamond Cyber)
2014	Commendation from Curtin Science (2014 semester 2)
2014	Curtin Vice-Chancellor's List (2013 semester 2 — top 1%)
2013	Commendation from Curtin Science (2013 semester 2)
2013	Commendation from Curtin Computing (2013 semester 1)
2012	Curtin Science Excellence Scholarship
2012	Distinction in WACE Computer Science (second highest in WA)
2011/2012	First prize in the MAWA Have Sum Fun competition (twice)
2011/2012	Top student in WACE Computer Science (four times)
2009/2012	Bronze in the Australian Informatics Olympiad (four times)
2009/2010	Distinction in the Australian Mathematics Competition (twice)
2008	High distinction in the Australian Mathematics Competition
2007	Dux of Rostrata Primary School

## Community involvement

2014-10/2014-12	<b>Mentor</b> at CoderDojo WA Provided training and support to school students aged 7–17 who are learning programming skills in weekend workshops at CoderDojo's branch in Curtin University. Languages used include Scratch, Python, Ruby, HTML, CSS, and JavaScript.
2015-11	<b>President</b> at ComSSA
2014-11/2015-04	<b>President</b> at ComSSA
2014-03/2014-11	<b>Secretary</b> at ComSSA
2013-11/2014-03	<b>Ordinary committee member</b> at ComSSA Maintained official correspondence, minutes, web, email, and other computing services for Curtin University's computer science club. ComSSA provides academic assistance, student representation, and social events for computing, networking, and security students.

## Technical expertise

<b>Programming</b>	C, Java, JavaScript, PHP, Python, x86 assembly
<b>Typesetting</b>	BiBTeX, CSS, HTML, Jekyll, L <sup>A</sup> T <sub>E</sub> X, Markdown
<b>Databases</b>	Microsoft SQL Server, MySQL, PostgreSQL, SQLite
<b>Platforms</b>	Cygwin, Linux, FreeBSD, OpenBSD, Windows

## Research interests

- Cryptography
- Programming language design
- Video compression
- Image processing
- Provably correct software
- Computational linguistics

## Online presence

<b>Website</b>	<a href="https://www.azabani.com/">https://www.azabani.com/</a>
<b>GitHub</b>	<a href="https://github.com/delan">https://github.com/delan</a>
<b>Bitbucket</b>	<a href="https://bitbucket.org/delan">https://bitbucket.org/delan</a>
<b>Stack Overflow</b>	<a href="https://stackoverflow.com/u/330644">https://stackoverflow.com/u/330644</a>
<b>Twitter</b>	<a href="https://twitter.com/dazabani">https://twitter.com/dazabani</a>
<b>LinkedIn</b>	<a href="https://www.linkedin.com/pub/delan-azabani/96/1a0/5b7">https://www.linkedin.com/pub/delan-azabani/96/1a0/5b7</a>

## Referees

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