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delan on Bitbucket and GitHub

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2019

Infrastructure engineer at Canva

Designed a system that provisions and manages ephemeral Amazon EC2 instances, for a wide range of use cases from bastions (remote access to servers and databases) to more intensive tasks like database migrations and machine learning.

Technologies used include Terraform for cloud orchestration, Buildkite for continuous deployment, Docker and Nix for reproducible environments, and Lambda with Python for serverless computing.

2017 to 2019

Software developer at Atlassian

Release manager and CI maintainer for the self-hosted version of Jira Service Desk since July 2018, cutting build times on the project's main repository by 30%.

Wrote and maintained the bulk of our documentation for our new starters and our builds and releases. Wrote an incremental build system for Maven using Python and POSIX shell that tracks successful build inputs with its own Git repository.

Gained a wide range of full-stack experience, using Java and Scala with OSGi and Spring on the back-end, ECMAScript and Backbone on the front-end, Groovy and Bamboo for continuous integration, and a heterogeneous persistence layer that supports five database systems through OFBiz, Active Objects, and Querydsl.

2014 to 2016

Casual academic at Curtin University

Tutored classes for Unix and C programming, operating systems, and first and second year software engineering, marked assignments and tests, wrote assessment revision material, and delivered it to more than a hundred students in a semester.

Current open-source projects

charming

<https://charming.daz.cat> — a mobile-friendly Unicode character map, built with a modern web front-end stack including webpack, TypeScript, React, and Jest.

nonymous

<https://crates.io/crates/nonymous> — the beginnings of a DNS library and query tool written in Rust, with goals to become zero-copy, no-alloc-friendly, and rigorously tested.

Education

2013 to 2016	Bachelor of Science (Computer Science) Curtin University (84.73 percent average)
2008 to 2012	Western Australian Certificate of Education Willetton Senior High School (98.85 percentile)

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 (96 percentile)
2012	Distinction in WACE Computer Science (second best in WA)
2011 to 2012	First prize in the MAWA Have Sum Fun competition (twice)
2011 to 2012	Top student in WACE Computer Science (four times)
2009 to 2012	Bronze in the Australian Informatics Olympiad (four times)
2009 to 2010	Distinction in the Australian Mathematics Competition (twice)
2008	High distinction in the Australian Mathematics Competition
2007	Dux of Rostrata Primary School

Community involvement

2016	President of ComSSA
2013 to 2016	Committee member at ComSSA Organised events, operated services, formalised processes, maintained correspondence, and liaised with sponsors and staff, for the computer science society at Curtin University. ComSSA runs social events and industry conventions, provides academic assistance, and represents computing, networking, and security students.
2014	Mentor at CoderDojo WA Trained and supported school students aged 7–17 who are learning programming skills, with the use of Scratch, Python, Ruby, and more, at the weekly CoderDojo workshops at Curtin University.
2014	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, with members of Engineers Without Borders Australia.

Other employment history

- 2015** **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.
- 2015** **Technical operator** at Diamond Cyber
Improved the security of the organisation's public website, investigated secure communications platforms for penetration testing, and built a workstation for training new employees.
- 2014** **Junior web developer** at Aspermont Limited
Supported and maintained a legacy content management system that uses ASP, VBScript, and Microsoft SQL Server, and aided with the migration of applications to Amazon Web Services and ASP.NET.
- 2009 to 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.

References

- +61 404 889 007 **Seb Welsh** <seb@canva.com> — Security team lead at Canva
- +61 449 155 603 **Niall O’Riordan** <noriordan@atlassian.com> — development manager for Server products and interim team lead at Atlassian
- +61 419 043 926 **Nigel Dutton** — computer science teacher, systems administrator, and manager of operations at Willetton Senior High School