David O'Donohue

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🎓 Education

Master of Psychology (Clinical), University of Tasmania   2012 – 2015

Bachelor of Psychology with Honours,   2008 – 2011
University of Tasmania

💼 Professional Experience

Software Engineer, Kord Defence   Sep 2020 – present

In this role, I designed, wrote, tested, and debugged software, and contributed to system architecture design. I utilised JavaScript, Vue, NativeScript, Quasar, Electron, and Python, to produce hardware-integrated applications for Windows, Mac, Android, and iOS. I also saved hundreds of hours of work by automating both the parsing of the data we collected, and the processing of the data through a proprietary classification algorithm.

Dev Ops Engineer, Cogito Group   Sep 2019 – Jun 2020

In this role I use Gitlab pipelines to automate deployment to a server. I implemented features on an application which used REST API webhooks to synchronise task management instances, reducing project manager workload. I used Go (Golang), JavaScript (React/Redux/Node), and C# while developing, bug fixing, testing, and performing code reviews for applications in a microservices environment with a PostgreSQL database. I was involved in creating unit tests
and automated tests, as well as performing integration tests, for these applications.

Computer Science Mentor, Science Mentors ACT   Jan 2019 – Dec 2019

In this volunteer role, I mentored a grade 9 student through a research project in computer science. We wrote a scissors-paper-rock bot which uses machine learning to exploit the inability of humans to choose moves which are truly random. We also described a mathematical conjecture which revealed insights into the assumptions of the machine learning framework.

Computer Science Tutor, Australian National University   Jul 2017 – Dec 2019

I was responsible for helping classes of first year students to successfully complete the course, as well as marking their assignments and providing them with feedback. I independently created video tutorials on the topics most students found the hardest and was consistently a top contributor on the online forums. I also consistently received high ratings in student anonymous feedback. In the second semester of 2018, my class showed the greatest improvement between their performance on the mid-semester exam and their performance on the final exam. I also created software to automate the emailing of student feedback, and the reminding of tutors to submit timesheets.

Associate Consultant, Veritec   Jan 2019 – Sep 2019

I worked autonomously to support other project members to deliver a detailed design document to the client. I created and ran a workshop on inter and intrapersonal skills. I developed a proof-of-concept web form for the Department of Agriculture using and integrating a static webpage, JavaScript, and an Azure LogicApp to orchestrate the flow of information.

Provisional Psychologist,   Jan 2014 – Dec 2014
Department of Health and Human Services

I worked with services in the disability sector, and families of individuals affected by a disability, to provide a functional assessment of challenging behaviours, as well as a subsequent behaviour management plan. I worked in a multidisciplinary team and liased effectively with allied health workers from other disciplines. I provided assessments for intellectual disabilities and adaptive behaviours. I also delivered psychoeducation to other professionals on schema therapy, autism spectrum disorder, and the process of cognitive assessment for intellectual disability.

Provisional Psychologist, Department of Education   2013 – 2013

I delivered learning, cognitive, and behavioural assessments to children. I provided feedback on the outcomes of these assessments, as well as intervention strategies, to families, school staff, and external agencies. I also provided counselling to students for issues including adjustment, anxiety, and depression.

Provisional Psychologist, PsychologyWorks   2013 – 2013

I provided cognitive assessments and cognitive behavioural therapy sessions to clients of the practice, predominantly psychoeducation, relaxation skills training, and mindfulness. I co-hosted a group on social anxiety, and a group delivering dialectical behaviour therapy to clients with a diagnosis of borderline personality disorder. I also provided suicide risk assessment and crisis counselling support.

Provisional Psychologist,   2012 – 2012
University of Tasmania Psychology Clinic

In this role, I delivered Cognitive Behavioural Therapy to adults, children, and families. I also provided cognitive assessments and reports, and delivered a "Cool Kids" program aimed at supplying children and their parents with skills and psychoeducation aimed at reducing the functional impact of childhood anxiety.

⠿⠺ **References**

Dr Kristen Webb Foss, *Clinical Lecturer*, Tasmanian School of Medicine

Dr Ekaterina Lebedeva, *Lecturer*, Australian National University

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🎖 **Awards**

Boyapati Computer Science and Mathematics Prize   2016
for First Year, Australian National University ⤤

Awarded for the highest marks in two first year Computer Science courses and two first year Mathematics courses.

Deputy Dean (Education) Commendation,   2016
Australian National University ⤤

Awarded to students who achieved High Distinction at the level of 90% or higher in all Science subjects.