

# Diarmaid de Búrca

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<b>DEVELOPMENT EXPERIENCE</b>	<b>Senior Software Developer</b>	Jan. 2022 - Present
	Futurice GmbH, Bergmannstraße 4, Berlin, Germany <ul style="list-style-type: none"><li>• Worked on project basis</li><li>• Used Javascript, Java and Kubernetes</li><li>• Worked on mobile applications</li></ul>	
	<b>Backend Engineer</b>	Apr. 2018 - Nov. 2021
	Makersite GmbH, Berlin, Germany <ul style="list-style-type: none"><li>• Maintained and developed Python codebase</li><li>• Worked as team lead for different projects</li></ul>	
	<b>Data Scientist</b>	Nov. 2017 - Mar. 2018
<b>OTHER EXPERIENCE</b>	Rey Analytical Research, Cologne, Germany <ul style="list-style-type: none"><li>• Performed t-tests, z-tests, F-tests, ANOVA and linear modelling as required</li><li>• Worked on a project to project basis</li></ul>	
	<b>Software Engineer</b>	Feb. 2016 - Oct. 2017
	Roslin Institute, University of Edinburgh <ul style="list-style-type: none"><li>• Maintained and extended animal simulation codes</li><li>• Developed a graphical user interface for animal simulation codes</li><li>• Worked on parallelisation of different simulation codes</li></ul>	
	<b>Intern</b>	Sept. 2012
	RealSim, Unit 110, Business Innovation Centre, Upper Newcastle, Galway, Ireland <ul style="list-style-type: none"><li>• Developed a supernovae video using Unity3D</li></ul>	
<b>OTHER EXPERIENCE</b>	<b>Tutor</b>	Sept. 2010 - Jan. 2016
	Physics Department, National University of Ireland, Galway (NUIG)	
	<b>Outreach Member</b>	Sept. 2010 - Jan. 2016
<b>EDUCATION</b>	Collage of Science, NUIG	
	<b>Tour Guide</b>	Sept. 2012 - Nov. 2012
	CERN Exhibition, Leisureland, Galway	
<b>EDUCATION</b>	<b>Doctorate (Astrophysics), NUIG</b>	Sep. 2010 - Dec. 2015
	Thesis: <i>Synchrotron Emission from Isolated Neutron Stars</i> Developed a new model of synchrotron emission from high ( $> 10^5\text{T}$ ) magnetic fields in the optical regime. Simulated this model in a MPI Fortran codebase, and compared the simulations against observations of the Crab pulsar. Results showed slight evidence for the slot-gap model of pulsar emission.	
	<b>Bachelor of Science(Physics and Applied Mathematics)</b>	Sept. 2006 - May 2010
<b>EDUCATION</b>	First Class Honours (78.38%) degree	

<b>EXTRA-CURRICULAR ACTIVITIES</b>	Transport Organisator, Kiezburn	Apr. 2022 - July 2022
	Art grant coordinator, Kiezburn	Jan. 2022 - July 2022
	Art grant coordinator, Kiezburn	Apr. 2021 - Aug. 2021
	Organiser, March for Science Edinburgh	Apr. 2017
	AstroSoc Committee Member	Sept. 2012-Feb. 2016
	<ul style="list-style-type: none"> <li>• Won Best New Society at the 2014 Board of Irish College Societies Awards</li> <li>• Won Best Departmental and Best New Society at NUIG Society Awards, 2014</li> </ul>	
	Physics Soc. Treasurer	Sept. 2009 - Sept. 2010
	Chess Soc. Treasurer	Sept. 2008 - Sept. 2010
	Aikido Club Secretary	Sept. 2007 - Sept. 2009
	FanSci Soc. Treasurer	Sept. 2007 - Mar. 2008
<b>SKILLS</b>	Committee Member for the Leitir Móir Youth Club	Sept. 2006 - May. 2007
	<b>Computational Languages:</b>	
	<ul style="list-style-type: none"> <li>• Expert in Python</li> <li>• Fluent in Fortran, Java, Javascript</li> <li>• Fluent in parallel programming (MPI, OMP, BLAS, LAPACK and SCALAPACK)</li> <li>• Experience with AWS, GCP</li> <li>• Experience with Kubernetes, Docker</li> <li>• Experience with SAS, R and Maple</li> </ul>	
	<b>Personal Skills</b>	
	<ul style="list-style-type: none"> <li>• Experience leading team development</li> <li>• Experience driving individual development</li> <li>• Capable of effective time management</li> </ul>	
	<b>Other skills</b>	
	<ul style="list-style-type: none"> <li>• Fluent in LaTeX</li> <li>• Experienced in mathematical analyses</li> </ul>	
<b>AWARDS</b>	Scrum Alliance Certified ScrumMaster	May 2022
	Awarded Meritorious Winner in Mathematical Contest in Modelling (MCM)	2010
	Awarded Successful Participant in MCM	2009
	Awarded Irish Scholarship from NUIG	2006
	Winner of Cumann Cois Fharriige	2006
	Awarded University Scholar of NUIG	2006
<b>COURSES</b>	Scrum Master Training	May 2022
	Evolutionary Quantitative Genetics	31 Oct. - 4 Nov 2016
	Advanced MPI @EPCC	29-30 Sept. 2016
	Methods, Strategies and Tools to Generate, Analyse and	3-7 Jun. 2016
	Basic Molecular Genetics For Bioinformaticians	19-20 May 2016
<b>REFERENCES</b>		
	Patrick Burden	
	Futurice GmbH	
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	Dr. Matt Redman	
	Physics Dept. NUIG, Ireland	
	Contact: +353 (0) 91 493357	matt.redman@nuigalway.ie