

Rian Errity

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Skills

TECHNICAL SKILLS

Java / JavaScript / React / Go / Python / Bash / React Inc. Native, PostgreSQL, Linux, DevOps, Docker/K8s

PERSONAL INTEREST

Linguistics, Computer Science Pedagogy, NLP/ASR/Synthesis, Productivity Systems

LANGUAGES

Hiberno-English, French (C1)

Experience

Software Developer – Abair Project, Trinity College, Dublin, Ireland

06/2022 – Present

- Developing Mobile Applications using React Native, React, Postgres and Node.js
- Managing Infrastructure for the entire Abair project, including a dedicated server with internal networking, VPN access, and monitoring tools such as Grafana.
- Development Lead for Geabaire,, funded by The Department of An Gaeltacht

Demonstrator / TA – Trinity College, Dublin, Ireland

09/2023 – Present

- Leading students through *Introduction to Programming*, whilst improving their code comprehension/writing and overall quality during interactive lab sessions.

Software Engineering Intern – Microsoft, Tallinn, Estonia.

06/2022 – 09/2022

- Worked on on the so-called 'PSTN Entitlement Service Team'
- Developed a framework for executing synthetic tests in Azure DevOps (ADO) for the entitlement service, which serves Microsoft Teams, Skype for Business and Azure Communication Services

Programming Tutor – Olus Education, Remote, Ireland

03/2021 – 06/2023

- Taught classes to over 300 students aged between 7-18 across various subjects including Scratch, HTML/CSS/JS, Java (Processing) and Arm Assembly
- Developed Lessons and created scripts to alleviate administrative load.

Education

Computer Science, Linguistics and French – Trinity College, Dublin

2020 – 2024

- Coursework included a basis in Computer Sciences / Software Engineering as well as Computational Linguistics/Formal Linguistics alongside the study for French.

Bachelor of Arts, Moderatorship.

Computer Science and Linguistics – Université Grenoble Alpes, France

2022 – 2023

- Took classes in Computer Science and Linguistics entirely in French and engaged in a Research Project with the STEAMER group based out of UGA in developing web interfaces for semantic web ontologies.

Erasmus Exchange

Projects

- **Geabaire: An Irish AAC System** (React Native Application) – Lead Software Developer, Abair Project
Developing an Irish-language alternative and augmentative communication (AAC) tool to allow non-verbal individuals to be able to produce grammatical, synthetic Irish-language speech. Accessibility is currently inaccessible in the Irish language, lowering barriers to education and increasing access to government services through Irish.
- **Publications** – Irish Technology for Accessibility and Education, Abair Project
Co-authored two papers accepted into ISCA-affiliated proceedings including my work on Geabaire, an Irish AAC system and Mol an Óige, a framework for Irish-language phonological awareness, presented at SLaTE and UK Speech 2023

Activities / Volunteering

- **SISTEM Conference**
Organizing and managing the annual SISTEM Tech Conference including developing the website: <https://sistemconf.com>
- **Trinity College Dublin Students' Union**
Class Representative (20-21) School Convenor (21-22) Oversight Commission Member (22-23.) Roles have involved being the student representative for the entire school of computer science.
- **College Societies**
Formerly the Treasurer and SysAdmin for TCD Netsoc, The Computer Networking & System Administration Society.