

JORDAN WILLIAMS

MEng Acoustical Engineering
Audio Research Engineer
Software Developer
Full-Stack Web Dev Bootcamp Educator
PADI Open Water SCUBA Instructor

ABN: 81 347 259 010
PADI Instructor Number: 521989

DRIVE & MOTIVATION

I have a passion for hearing/digital health and professional audio.

My main aim is to use my formal knowledge of acoustics, audio and engineering in ways that benefit and improve people's lives.

SKILLS

- Proficient:
 - Python, MATLAB, JavaScript, TypeScript, GitHub, JIRA, Asana, AutoCAD, Odeon, SoundDesign, COMSOL, Flask, React, node, TensorFlow, sci-kit, pandas, offline DSP, database analysis, R&D, MongoDB, PostgreSQL, React, MERN.
- Working understanding:
 - C++, bash, lua, yaml, linux, microprocessors, chipset porting, realtime DSP.
- Acoustical engineering & experimentation.
- Research based product development.
- Experienced working in Scrum (Agile & Kanban).
- Presentation & communication.
- Teaching, education and coaching.
- Excellent team worker with a positive outlook.
- Flexible in approach and methodology.
- High integrity, honesty, socially responsible.

CONTACT DETAILS

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in <https://www.linkedin.com/in/jordyjwilliams/>

🐙 <http://github.com/jordyjwilliams/>

🌐 <https://jordyjwilliams.github.io/>

EXPERIENCE

Coder Academy, Remote, Melbourne, AU

ACADEMIC MENTOR FULL-STACK WEB DEV BOOTCAMP - OCT 2022 - CURRENT

- Managed lessons and provided support to ~30-40 students. In charge of: attendance, lesson setup, student support, writing and running quizzes and challenges.
- Answered questions and provided asynchronous "office-hours" support across 3-4 simultaneous cohorts (up to 90 students per cohort).
- Created and uploaded: notes/recordings for 10+ hours of meetings per week.
- Key skills: education, teaching, mentoring, curriculum design, HTML5/CSS3, Python (Flask), JavaScript (React, MERN, node), MongoDB, PostgreSQL.

Freelance Developer/Audio Research Engineer

FEB 2021 - CURRENT

- Support work for 2 prior owned software projects for Mimi Hearing Technologies.
- Freelance work cadence enabled simultaneous SCUBA training and volunteer work.
- Actively perusing new, exciting software/engineering projects.

Mimi Hearing Technologies, Berlin, DE

AUDIO RESEARCH ENGINEER - OCT 2018 - FEB 2021: 2 YEARS 5 MONTHS

- Ownership, development and release planning for >5 software projects:
 - Medically certified products: hearing testing engines, analysis and result computation packages/backend services
 - Internal research (Python) packages and various analysis toolkits.
- Worked in 4 different cross-functional development teams
 - Scrum and Kanban, average size: 8-10 people. Rotating Scrum Master duties.
- Setup and improved QA of audio output and improved code quality processes.
- Facilitated communication between: 4 internal teams (research, product, BizDev and sales) as well as our elements of our technical communication with 5+ external partners.
- Key skills: Python & C++ development, audio engineering, analytics, communication.

Internships

VARIOUS ROLES, MULTIPLE TIME-FRAMES

- Completed internships at more than 10 different companies spanning 4 countries.
- Examples: Fotech Soltions, Sky, Shure, AECOM, Cole Jarman, JackFM.

EDUCATION

University of Southampton, UK

MASTERS OF ACOUSTICAL ENGINEERING (MENG) - FIRST CLASS HONOURS
SEPT 2014 - JUN 2018: 3 YEARS 10 MONTHS

- Graduated Valedictorian/best in final year.
- Dissertation won the "Institution Best Project Certificate" from the Institute of Mechanical Engineers.
 - "Signal Processing of acoustic emissions to identify Osteoarthritis in the knee joint". Machine learning model created had a blind trial success rate of 100%.
- Wakeboarding club president, student ambassador work and other responsibilities.

VOLUNTEER EXPERIENCE

ReDI School of Design Interaction, Berlin, DE

TEACHER, INTRO TO PYTHON, JUL 2020 - FEB 2021: 7 MONTHS

- Taught and coordinated the "Intro to Python Course", 4 hours of lessons per week.
- ReDI is a not-for-profit technology school teaching free courses to >6000 students.
 - Diverse students >95 nationalities, primarily with forced migration backgrounds
- Key skills: teaching, organisation, planning and delivering a curriculum.

Divers Den, Frankland Islands & Reef Restoration Foundation, Cairns, AU

DIVEMASTER AND INSTRUCTOR TRAINING, JAN 2022 - JUN 2022: 7 MONTHS

- PADI Divemaster and Open Water SCUBA Instructor Training.
- Led and guided: ~30+ snorkelers, 4+ divers and ~30+ island nature walks.
- Volunteer dives coral tree out-planting, with Reef Restoration Foundation.

Action on Hearing Loss/RIND, UK

VARIOUS ROLES, 2016 - 2018: ~2 YEARS

- Community support and outreach events - helped communicate challenges faced by the deaf community. Spoke at outreach events of >100+ people.
- Charity Officer: University Sign Language Society. Fostered links with 3 charities.
 - Taught basic British Sign Language (BSL) classes of 30+ students.