

JACK BENDTSEN

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EDUCATION

Swinburne University
Certificate IV in IT
Jan 2016 - Dec 2016

JMC Academy
Diploma of Music Performance
Jun 2017 - Apr 2018

SOFTWARE SKILLS

- Languages: C/C++, C#, Java, Python, JavaScript, Kotlin, Swift, Go
- Experience with Frameworks and Libraries including Android, iOS, Linux, macOS, Windows, OpenGL, Vulkan, Node.js, React, Django, etc.

RELEVANT EXPERIENCE

Centre for Eye Research Australia Software Contractor

Dec 2023 - Oct 2024

- Re-wrote AngioTool to make it suitable for large-scale scientific analysis and expand range of compatible image types. Designing batch processing features in Java to analyse 5000+ retinal scans and produce a summary table of results
- Conducted a meta-analysis of 350+ genes from a genome database using Python. Created personalised summaries for each gene and overall summaries to characterise mutation prevalence

Mactrix Development Software Developer

Jun 2022 - Nov 2023

- Focused on developing next-generation video streaming technology for Dolby Laboratories to improve streaming experience
- Optimised Android app written in Java and Kotlin to reduce wasted data from 30% to 1%, and increase streaming quality by 50%
- Designed proof-of-concept multi-cast video streaming apps for iOS in Swift, enabling next-gen video streaming on Apple platforms
- Created a suite of tools in C++ and Python used to benchmark and stress-test Dolby's video streaming libraries, cutting down iteration time by 50%

VeroGuard Systems Embedded Software Engineer

Jun 2021 - Mar 2022

- Collaborated with a team of 3 developers to architect and maintain a platform for secure communications for hospital and military use
- Debugged a FreeRTOS-based C++ codebase for an embedded system-on-a-chip
- Designed a custom firmware in C and ARM assembly for a Bluetooth microcontroller to expand capabilities and features of product while working within 24KB of RAM

Officeworks Sales Assistant and Android Developer

Oct 2018 - Jun 2021

- Created an Android app in Java to efficiently locate products and complete routine tasks featuring advanced search and real-time stock quantities
- Advised customers with technological inquiries and provided solutions for both software and hardware concerns

Personal Website

I created <https://jackbendtsen.com.au>, in C++ and JavaScript. It features:

- Full Markdown support, including inline CSS styling
- Project viewer with a ZIP download feature
- Client-side text editor written in JavaScript