Will Holdsworth

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Education

The University of Melbourne, Bachelor of Science in Computing and Software Systems
- Relevant coursework: Software Modelling and Design, Computer Systems, Artificial Intelligence, Models of Computation, Graphics and Interaction, Declarative Programming, Corporate Financial Decision Making
- Activities and societies: UMCPC, CISSA, DS Cubed, HackMelbourne, MUMS, SSS, MISC, Tabletop Gaming Society

Experience

Full Stack Developer, Modano   Dec 2025 – present
- Saved organisation $108,000 p.a. on external API calls via custom connection tracking dashboard (PHP, JS)
- Migrated 50,000+ SLOC from ReactJS to React + TS, implementing deferred data loading at route level (ReactJS, TypeScript, TanStack Router, TanStack Query)

Software Engineering Intern, Modano   Sept 2025 – Dec 2025
- Developed bespoke OAuth 2.0 library for accounting software integration enabling 100's more customers to connect and import data
- Created and maintained end-to-end developer environment setup documentation - including configurations for Apache, VirtualBox, and MySQL - saving 3+ hours per-person of vital onboarding time

Winter Vacation Scholarship, Dept. DSAI @ Monash University   June 2024 – July 2024
- 90% single record space savings in migrated Mongo DB database
- 200GB+ of CSVs processed and modified in parallel in C
- Presented to 20+ experts in optimisation theory my work and findings
- Designed and wrote run length encoding-based compression method for AI agent paths

Projects

VIT Timetabling   July 2024 – Oct 2025
A timetabling webapp for an education institution
- Communicated with client over several months via email and live video chat to achieve their goals
- Created REST API in Kotlin web framework ktor between ReactJS front-end and PostgreSQL database
- Configured an end-to-end CI/CD pipeline from docker dev container to live web app on VPS
- Described 30+ routes in a maintained OpenAPI specification

IMAP Client   Apr 2024 – Apr 2024
An email viewing program written in C
- Implemented a portion of RFC 3501 describing client-server interactions via IMAP
- Interfaced with an IMAP server to list inbox, retrieve mail content, parse headers, and handle MIME
- Facilitated connection via berkley sockets

Achievements

- Bronze JMSS diploma recognising extra-curricular involvement
- Honourable Mention ML AI Hack 2023 - DoraTransport
- International Mathematics Modelling Competition (IMMC) 2021

Skills

Languages: Typescript/JavaScript, Python, Kotlin/Java, PHP, Rust, C, SQL, Shell Script, Nix, MATLAB

Frameworks/Libraries: ReactJS, TanStack (Query, Router), Drupal, ktor

Developer Tools: PostgreSQL, MySQL, Git, JUnit, pytest, GitHub, GitLab, Docker