Jeb Nicholson

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EDUCATION

University of Otago   **2022 – Present**
Bachelor of Science with Honours in Computer Science   *Dunedin, New Zealand*
- **GPA: 8.8/9.0**
- Studied abroad at the **University of Toronto** in 2024

Fiordland College   **2015 – 2021**
NCEA Level 3 Endorsed with Excellence   *Te Anau, New Zealand*
- Fiordland College Dux, first in every subject

WORK EXPERIENCE

ADInstruments   **Summer 2024**
Software Developer Internship   *Dunedin, New Zealand*
- Worked on the development of a web-based education platform Lt using Typescript, React and Java.
- Improved platform accessibility to meet WCAG standard.
- Gained experience in peer programming, code review, continuous integration, testing, and Agile Development.

Part-time/Volunteer Work
- Volunteer tech support with Com2tech Dunedin   **2025**
- Shelf stacker at Fresh Choice, Te Anau: stocking shelves and providing customer service   **Summer 2023**
- Volunteer IT Manager for the 202F Lions Club Convention   **2021**
- Barista at Cathedral Café and Store, Manapouri: serving customers and preparing food   **2019 – 2022**

SOFTWARE PROJECTS

Sidetabs   *TypeScript, React*
- A Firefox browser extension that enables the use of a vertical tab bar. Customizable, and styled to match the browser theme. Reached over 370 daily active users before Mozilla released this as a feature in Firefox 136.

Fall detection on ESP32   *C++, Python, Tensorflow*
- A prototype low-energy wearable device for detecting falls based on IMU data. Uses an embedded CNN model to classify falls with 90% accuracy.

Binge Benchmark   *TypeScript, React, Next.js*
- A website for finding out whether a TV show is worth sticking with. Using rating data from trakt.tv, and metadata from tmdb.org, users can view ratings graphs to find the public consensus on the quality of a show.

Rotating 2D video to Equirectangular 360   *Python, OpenCV, PyTorch*
- My honours project, which uses Computer Vision techniques to track and transform footage of a large scene taken by a rotating camera into stable equirectangular 360 video.

AWARDS

- University of Otago Pavel Tichy Prize in Logic   **2023**
- University of Otago Academic Excellence Entrance Scholarship   **2022**
- Southland Youthmark Award   **2021**
- Youngest in the country to qualify for Waikato University Cyber Security Challenge   **2017**

SKILLS

- **Technologies:** C/C++, TypeScript, React, Python, PyTorch, Java, Docker, Git, Linux
- **Skills**: Written/Verbal Communication, Adaptability, Problem Solving, Video Editing, Design Prototyping

References available on request