

KEEGAN HIDSON

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EDUCATION

Western Sydney University

Bachelor of Information and Communications Technology

Mar 2020 – Nov 2023

Sydney, NSW

EXPERIENCE

Cochlear Limited

Graduate Software Engineer

Swift, iOS, Bluetooth

Nov 2023 – Present

Macquarie Park, NSW

- Working on Cochlear's [surgical navigation software](#), providing surgeons with real-time guidance during implant procedures.
- Migrated Bluetooth permission flow to AccessorySetupKit, standardising device discovery and configuration on iPadOS 18.

Software Engineer

C#, .NET, Python, AWS (Lambda)

- Worked on Cochlear's [fitting software](#), empowering audiologists to program implants and personalise hearing outcomes.
- Engineered a C# desktop application for scalable data management in multi-site clinics and clinician outreach programs.
- Developed a Mixpanel analytics service, providing insights from 1M+ fitting sessions to guide development decisions.
- Built a Sentry crash reporting service, processing 100+ crashes daily and improving bug resolution by grouping issues.

Software Engineer Intern

TypeScript, Node.js, AWS (ECS, S3), Docker, Terraform

- Developed a test framework to standardise and automate the testing of APIs, increasing overall test coverage by 30%.
- Improved microservice reliability by building a real-time monitoring tool, responsible for detecting critical service outages.

Western Sydney University

Junior Data Engineer

Python, SQL, Oracle, ETL

Oct 2022 – Nov 2023

Sydney, NSW

- Built and optimised ETL pipelines to capture prospective student data, driving increased applications and enrolment rates.
- Automated extraction and transformation of over 20,000 student records daily, reducing processing time by 80%.
- Collaborated with admissions to deploy data models for targeted recruitment and engagement campaigns.

Amazon

IT Support Engineer

Linux, Troubleshooting

Feb 2022 – Aug 2022

Sydney, NSW

- Resolved hardware, software, and network issues for end-users, improving average ticket resolution time by 25%.
- Supported senior engineers in diagnosing and resolving site-wide network and service outages.

VOLUNTEERING

Western Sydney Solar Team [🔗](#)

Aug 2022 – Jun 2023

Software Engineer

- A student-led engineering project aimed at building a solar powered vehicle to compete in the 2023 World Solar Challenge.
- Developed a Python application to calculate and visualise optimal solar charging angles based on geographical location.
- Improved charging efficiency during control stops, supporting peak energy intake throughout the 3000km journey.

PROJECTS

Vivid Sync: RGB-LED Display System

[🔗](#) MERN, AWS (EC2, S3), Tailwind — Python, Flask, Ngrok, Raspberry Pi

- Led a team of 5 to develop an IoT project for remotely rendering image and video content on a custom-built LED strip board.
- Achieved finalist status in the WSU 2023 Optimize award, recognising innovative engineering and project excellence.

WSU Computing Society: Leetcode Bot

[🔗](#) Node.js, TypeScript, GraphQL

- Created a Discord bot aimed at providing students with a community-driven space to prepare for technical interviews.
- Integrated Leetcode's GraphQL API for question, hint, and solution retrieval to provide a simulated interview setting.

Electric Vehicle Charging Network

[🔗](#) C++, Graph Theory, Algorithm Design

- Developed a C++ application to simulate EV travel routes and charging costs within the Sydney Metropolitan area.
- Implemented graph algorithms such as Dijkstra's to optimize EV routes and charging station selection.

Cochlear Hackathon 2023: RAG LLM Chatbot — Python, AWS (Bedrock), Streamlit

- Collaborated with developers to build a Retrieval-Augmented Generation (RAG) chatbot for Cochlear-related queries.
- Awarded first place for innovative use of proprietary data in LLM fine-tuning, without compromising data security.

TECHNICAL SKILLS

Languages: C++, C#, Python, Java, JavaScript, TypeScript, SQL

Frameworks: React, Node.js, Express.js, MongoDB, Serverless, Flask, Tailwind, Bootstrap, .NET

Technologies/Developer Tools: AWS, Git, CI/CD, Terraform, Docker, Ngrok, Postman, Sentry, Mixpanel, Raspberry Pi