

MARKUS KLEIN GEARD

Software Engineer

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EXPERIENCE

Seagoing Software Engineer, Data Acquisition
CSIRO - National Collections and Marine Infrastructure

Jun 2024 - Ongoing

Hobart, Australia

- Handled the calibration and deployment of CTD and ADCP transducer systems, ensuring accurate oceanographic data collection during seagoing operations.
- Identified and addressed upwards of 100 previously unknown defects, drastically improving the quality of the final data product used by scientists.
- Successfully handled the integration of scientific sensors into the system, including salinity analysers, PCO_2 sensors, and new echosounders.
- Implemented robust unit testing, increasing code coverage from 30% to over 90% and drastically improving test quality.

MindK

Software Engineer

Oct 2022 - May 2024

Remote

- Built and deployed airfare and hotel booking web application along with its required micro-services, documenting the build process and application architecture for use by future developers.
- Optimised project configuration and build scripts, enabling local cross-platform use and halving build times.
- Refactored inefficient cursor-based T-SQL queries to take advantage of set features, resulting in significant reductions in query execution times - In some cases from minutes to seconds.
- Upgraded legacy FlightJS components into ReactJS, reducing the time required to make future changes to the UI.

Software Engineer

Sandvik - Deswik Suite

Jan 2021 - Aug 2022

Brisbane, Australia

- Excelled as a .NET Software Developer by delivering feature epics such as real-time data feed services, web-integrated PDF mine design approvals, and CAD data quality enforcement.
- Showcased communication and presentation abilities by hosting company-wide software demonstrations, leading to a ~25% increase in attendance and improved audience engagement.

Intern Software Engineer

SAP - Business Intelligence Department

Sep 2019 - Mar 2020

Walldorf, Germany

- Developed a resilient REST API back-end using Java Persistence API for an internal social learning platform, enhancing functionality and performance.
- Designed a persistence model and assisted in the development of a prototype for a cutting-edge recommendation engine research project, demonstrating the feasibility of the project to stakeholders.

MY LIFE PHILOSOPHY

"The great aim of education is not knowledge but action."

OVERVIEW



4.5 years of experience

I am an experienced software engineer with strong backend and data skills



Seeking new and exciting role

Eager to join a forward-thinking team where I can contribute my skills



Open to relocation

Very mobile and free to relocate within Australia with three weeks notice

EDUCATION

B.Sc. Computer Science

Queensland University of Technology

Feb 2017 - Nov 2020

- Major: Computer Science
- Minors: Statistics, Exchange Semester
- GPA: 6/7, Graduation with Distinction
- Founding member of QUT Business Analytics and Data Science Club

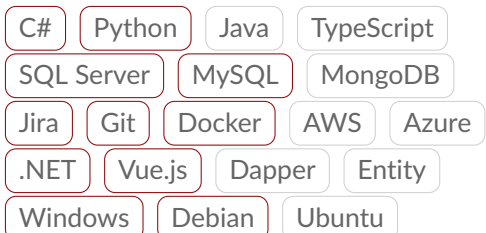
Exchange Semester

Hochschule Karlsruhe

Mar 2019 - Aug 2019

Enriched my education through an exchange semester in Germany, where I studied mathematics and business units in both German and English.

SKILLS



LANGUAGES

English



German

