

LUKAS TROMBACH

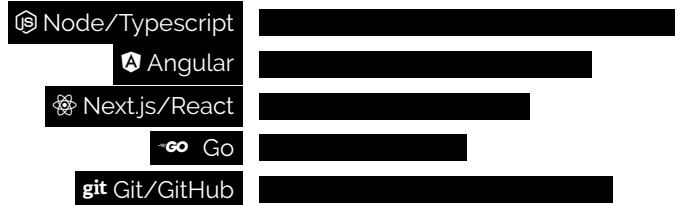
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Software Engineer / Researcher

WHO AM I?

I'm a scientist trained in theoretical chemistry with a huge interest in all things tech. My passion for computer science has led me to become a software engineer and I am keen to put these skills to work. I'm always looking for something new to learn and love discovering new tools, languages and frameworks.



EXPERIENCE

2023–current
1yr 5mon

Intermediate Web Developer

Green Chilli Digital Auckland

Full-stack web development for various clients • e2e testing with Cypress • CI/CD with Github Actions • API development with Go • wrote tools and dashboards in Next.js and Angular to help manage internal processes • developed and maintained monitoring systems using Cypress and Github Actions
Typescript / Next.js / Angular / Go / Cypress / Github Actions

2021–2023
1yr 10mon

eResearch Engagement Specialist

University of Auckland

Full-stack developer for research-hub.auckland.ac.nz • refactored and improved Angular code base to improve maintainability and performance • improved unit and e2e testing • developed Python script for ingestion of microscopy data into MyTardis
Angular / Typescript / SASS / GraphQL / Python / AWS Lambda / serverless

2019–2021
1yr 9mon

Full-Stack Software Developer

Virsaе Auckland

Full-stack software development for Virsaе Service Manager (SaaS) • data processing, API development and front-end UI • database maintenance and performance optimisations
Angular / .NET Core/Framework / C# / SQL / Entity Framework

SELECTED PROJECTS



lukastrombach.dev

👤 Trombach/astro-homepage

Portfolio page written in Astro, Svelte & tailwindcss; deployed on Vercel • uses SSG and ISR strategies for fast page loads • Astro content collections CMS



ResearchHub Reporting

👤 UoA-eResearch/research-hub-contentful-reporting

AWS lambda function written in Typescript to generate reports on the ResearchHub content using the Contentful GraphQL API • storage of reports in AWS S3 and Google Sheets • visualisation via Google Datastudio

EDUCATION

2014–2019

PhD Theoretical Chemistry & Post-Doctoral Fellow

Massey University Auckland

High performance computing • scientific programming, e.g. Monte-Carlo basin hopping
C++ / Python / Matlab / bash

2008–2014

BSc & MSc Chemistry

Philipps-Universität Marburg

High performance computing • bash scripting

LANGUAGES

German — native
English — fluent
Spanish — beginner

HOBBIES

🎸 Electric Guitar 🎮 Gaming
🏂 Snowboarding 🧩 Sudoku

SELECTED PUBLICATIONS

LT *et al.*, PCCP 21, 18048 (2019)
LT *et al.*, PRE 97, 043309 (2018)
LT *et al.*, Chem—Eur J 22, 8823 (2016)