# ALEXANDER MAEHL
BE(Hons)

CONTACT

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Computer systems engineering honours graduate, looking for my next big challenge and exciting opportunity. I have experience working in development operations at a software firm as well as designing, building and programming embedded systems.

EDUCATION

University of Auckland | 2016—2020
Bachelor of Engineering in Computer Systems Engineering
- **Second class, First division Engineering Honours**, 2020

Saint Kentigern College | 2010—2015
NCEA Economics, Physics, Calculus, Drama and Computer Science.
- **Academic Honours**, 2015

EMPLOYMENT HISTORY

2019—Present, Software Developer | Grappler, Auckland

Employed as a full time Software Developer with an emphasis on Development Operations.
- Constructed a scheduling system and real-time monitoring page for customizable VM instances on Google's Compute Engine
- Liased with senior local and offshore development team members to create a framework and support code for a feature logging process and a new feature flagging system for developers.
- Worked with front line support staff to understand requirements and develop a real time monitoring system to asist with their client support

2018—2019, Junior Software Developer | Grappler, Auckland

Gained Work Experience for Engineering Degree and Completed various Development Operations Projects.
- Constructed APIs and Pages within the grappler application for searching through exception and logging call data
- Refactored Pages within the Grappler Application to improve workflows
- Developed processes for large scale manual data entry and manipulation within the Grappler Application

Jan—Sep 2018, Tutor | NumberWorks'nWords, Auckland

Worked as part of a team of tutors providing tuition to many students of varying levels of mathematical ability.
- Tutored up to 4 students at a time in mathematics from primary to NCEA level 3
- Learned to look after and tutor a room of 4 students
- Learned Fire safety plans and responsibilities towards students

May 2017—2018 , Private Tutor | Various families, Auckland

Provided after-school tutoring in Calculus, Mathematics and Physics for NCEA Level's 1—3.

Mar 2015—2016 , Robotics Coach | Titirangi Primary School

Coached and instructed students in both basic programming principals and robot design in preparation for the junior Robocop competition.
- One team achieved 3rd place in the Auckland Competition
- Introduced students to programming basic robots with Mindstorms

TECHNICAL SKILLS

- PHP
- JavaScript
- Python
- C++
- Java
- Angular JS
- Docker
- GCP/Cloud Computing
- C (Embedded systems)
- SQL
- VHDL
- Git
- Mecurial
- Jira Familiarity
- Agile Principles

UNIVERSITY PROJECTS

- Python and TensorFlow based Facial recognition app for counting attendance
- Embedded C and VHDL project to build an autonomous line following and pathfinding robot which used both RF signals and light sensors to navigate a projected maze and collect pellets
- Python web server project to host a messaging web app (also created as part of a separate project) which utilized used a login server for user authentication.
- Java project in pairs focused on game development using JavaFX

PERSONAL INTERESTS

Engineering Review, Improvisation, Singing, Videogames, Skiing, Sailing.

REFEREES

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