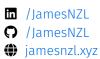
# **James Bao**

james@jamesnzl.xyz+64 22 410 1580Auckland, New Zealand



## **©** Career Objective

I am chasing an internship to grow my love for software and full-stack web development.

I want to **improve human lives**—whether through software, hardware, or a **beautiful combination of both**.

I am always looking to **learn** new things and **grow** as a person—and I apply this mindset to everything I do.

## **☆ Skills Summary**

#### **Problem Solving**

> I apply my strong logical thinking to challenging situations, and leave things better than I found them.

#### **Communication Skills**

> I am an effective communicator with an aptitude for **breaking down challenging concepts**.

#### Leadership

> I am passionate about intent-based leadership and understanding each member's strengths and weaknesses.

#### **Teamwork**

> I strive to be an asset to any team. I am known for my reliability—I do not make promises I cannot keep.

## **Education**

## **Bachelor of Engineering (Honours)**

2021 - 2024

The University of Auckland

> Specialising in **Computer Systems** Engineering

> Cumulative GPA of 8.2/9.0 (A)

# **Experience**

Course Cadet StaffJul 2021New Zealand Cadet ForcesAuckland, NZ

> Selected to staff the Northern Area Junior Non-Commissioned Officer's Course 04/21

- ➤ A mentor and **role model** to the course of 50+ students
- > Aided Directing Staff in training delivery, student assessment, and welfare management
- ➤ Maintained **morale** and esprit de corps
- Applied my instructional technique and leadership skills to deliver a 'very efficient Final Parade'

### **Freelance Software Developer**

2020 - 2021

- ▶ Back-end development with JavaScript, Node.js, and MongoDB
- Built a custom Discord bot tailored to streamline digital order management and processing

## **♥**<sup>o</sup> Technical Skills

### TypeScript/JavaScript

- > Front-end **browser** and back-end **Node.js** applications
- > Object-oriented and functional patterns
- **> async/await**, Promises, and callbacks
- > Serverless functions with Next.js and Cloudflare Workers

#### C/C++

- > Familiarity with **Arduino**-flavoured C++ and standard C
- > Learnt through **projects** in high school and University Engineering courses
- > Currently using C to develop **firmware drivers** for an **ATmega328PB**

#### Git/GitHub

- > Usage of **feature branches**, pull requests, issues, and GitHub Actions
- > 3000+ contributions accrued over the past 4 years

Other Languages I also have limited experience in Python, Java, and MATLAB.

## notion-assignment-import

jamesnzl.xyz/notion-assignment-import

- > Cross-browser extension that loads Canvas assignments into a Notion database
- > 250+ users in under two months
- > Variety of tools including **Gulp**, Browserify & ESBuild, **Sass**, and PostCSS
- > Learnt more about APIs, HTTP and HTTP clients, and OAuth2
- ▶ Git and GitHub

Sass and PostCSS

Insomnia

▶ TypeScript, HTML

▶ Gulp, Browserify, and ESBuild

**Pronto** 2020 – 2021

aucklandarmycadets.github.io/Pronto

City of Auckland Cadet Unit

- > Full-featured Discord bot to **streamline** Unit **procedures**
- > Comprehensive codebase documentation with JSDoc
- > Experimenting with Cloud Computing services including DigitalOcean, Linode, Vultr, and currently Oracle Cloud
- ▶ JavaScript, Node.js
- JSDoc

▶ SSH, Bash, Unix CLI

▶ MongoDB

Virtual Private Servers

Unit Website 2022

github.com/aucklandarmycadets/aucklandarmycadets

City of Auckland Cadet Unit

- ➤ A modern, performant website to overhaul my Cadet Unit's online presence
- > Serverless functions with both **Next.js** and **Cloudflare Workers**
- > Created my own CDN to cache Notion's ephemeral images and optimise performance
- > Experience in managing **DNS records**, administering Google Search Console, and enhancing **SEO**
- ▶ Next.js (and React) with Vercel
- ► Serverless functions
- ▶ DNS Records, SEO

Other Projects More projects can be found on my GitHub profile.

# **P** Achievements

- > First in Course Award for ENGGEN 131: Introduction to Engineering Computation and Software Development
- > Bayonet of Honour

> First in Level 3 Calculus

➤ Cadet Warrant Officer Class Two

> First in Level 2 Physics

> Top of Course Award

> First in Level 2 Programming

> School Prefect and Deputy House Captain

NZCF Senior Non-Commissioned Officer's Course

# **9** Interests

**Outdoors** I have a deep love for the outdoors, and find it an amazing outlet to recharge my batteries.

**Teaching** I love crafting intuitive explanations for difficult, technical concepts—and seeing the lightbulb moment.

**Te Ao Māori** I care deeply about engaging with the indigenous culture & language of Aotearoa New Zealand.

**Youth Development** I am currently an Officer Cadet in the New Zealand Cadet Forces. I was previously a cadet for 5 years, including 17 months as a Cadet Warrant Officer Class Two.

# **A** References

## **Captain James Green, NZCF**

Cadet Unit Commander

james.green@cadetforces.org.nz or +64 21 101 8020

City of Auckland Cadet Unit

James has been a **significant mentor**, and has heavily **guided** my growth as a person.

Rebecca O'Gram Associate Principal

rog@westlake.school.nz

Westlake Boys' High School

Rebecca was my Year 13 Calculus **teacher**, and is one of the **most influential** teachers I have ever had.

## Matua Johnny Waititi

Te Kaihautū o Te Puna

jwa@westlake.school.nz or +64 20 410 53400

Westlake Boys' High School

Matua Johnny was my Te Reo Māori kaiako and form teacher, and has also played a pivotal role in my life.

2022