James Bao

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⊕ 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 Staff   Jul 2021
New Zealand Cadet Forces   *Auckland, 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

⚙ 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**.

🧪 Project Experience

notion-assignment-import
jamesnzl.xyz/notion-assignment-import

2022

- ❯ **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
- ▸ TypeScript, HTML
- ▸ Sass and PostCSS
- ▸ Gulp, Browserify, and ESBuild
- ▸ Insomnia

Pronto
aucklandarmycadets.github.io/Pronto

2020 – 2021
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
- ▸ MongoDB
- ▸ JSDoc
- ▸ Virtual Private Servers
- ▸ SSH, Bash, Unix CLI

Unit Website
github.com/aucklandarmycadets/aucklandarmycadets

2022
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**.

🏆 Achievements

- ❯ **First in Course Award** for ENGGEN 131: Introduction to Engineering Computation and **Software Development**
- ❯ Bayonet of Honour
- ❯ Cadet Warrant Officer Class Two
- ❯ Top of Course Award
  NZCF Senior Non-Commissioned Officer's Course
- ❯ School Prefect and Deputy House Captain
- ❯ First in Level 3 Calculus
- ❯ First in Level 2 Physics
- ❯ First in Level 2 Programming

🧑 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.

👥 References

Captain James Green, NZCF
james.green@cadetforces.org.nz or +64 21 101 8020

Cadet Unit Commander
City of Auckland Cadet Unit

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

Rebecca O'Gram
rog@westlake.school.nz

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

Te Kaihautū o Te Puna
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.