# 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**
> Git version/source control and GitHub project management
> 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
2022

*jamesnzl.xyz/notion-assignment-import*

- **Cross-browser** extension that loads Canvas assignments into a Notion database
- **60+ 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
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
- MongoDB
- JSDoc
- Virtual Private Servers
- SSH, Bash, Unix CLI

### 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**.

## 🏆 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 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
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.