



Aaron Tan

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Skills

Programming

Languages

C/C++, Java, HTML/CSS/JavaScript, Pebble.js/PebbleKit JS, Visual Basic

IDEs/Dev Tools

Git, Visual Studio, NetBeans, CloudPebble, Sublime Text, GCC

Operating Systems

Windows, macOS, Linux

Linguistics

Fluent in English and French; proficient in Spanish, Cantonese, Mandarin

Projects (All headers are clickable)

Breathe

Featured on the Pebble App Store with 4.9k+ downloads.

- A Pebble app for guided breathing sessions, with visual and haptic feedback, as well as scheduled reminders.
- Localized in English, French, Spanish, and German.
- Uses Bluetooth AppMessage and PebbleKit JS for two-way communication between watch and phone, Pebble Animation framework, HTML localStorage, and Clay settings framework.

C

CB Schedule

- A Pebble app to view and organize classes, teachers, and schedules at Colonel By Secondary School.
- Uses Pebble.js, Google Calendar Events API, and Slate settings framework.

Pebble.js

Literary Terms Question Bank

- A question bank identifying literary terms, commissioned by English department at Colonel By Secondary School.
- Created and formatted database of 250+ quotes with associated hints and explanations from literature.
- Uses JSONSimple library for importing quotes at runtime.

Java

Simple METAR

- A single-purpose website to retrieve and display coded and decoded meteorological aviation reports.
- Responsive for all screen sizes using @media CSS rules.
- Uses async JavaScript promises (polyfilled for older devices), Google Maps Geocoding API, and AVWX METAR API.

HTML/JS/CSS

Star Wars Targeting Computer Watchface

Featured on the Pebble App Store with 5.4k+ downloads.

- A Pebble watchface featuring an animated Star Wars Targeting Computer, step count, and weather conditions.
- Uses PebbleKit JS for weather using OWM, Forecast.io, and Dark Sky APIs, and pmkey.xyz for API Key configuration.

C

Education

University of Waterloo

- Candidate for BAsC in Computer Engineering, 2022
 - President's Scholarship of Distinction // uWaterloo
 - Nortel Networks Undergraduate Scholarship // uWaterloo
 - 872 Squadron Post-Secondary Bursary // 872 Kiwanis Kanata RCACS

Colonel By Secondary School

- International Baccalaureate Diploma Programme Graduate
 - Achieved 43 of 45 possible IB marks, top 1% of 60,000+ IB students
- Ontario Secondary School Diploma
- French Immersion Diploma

Achievements

2017

Colonel By Debate

2016

- Provincial bilingual debate champion with partner during Ontario Student Debate Union tournament
- Semi-Finalist in Xerxes Cup Tournament held by Carleton University with 60+ teams participating
- Co-organized weekly meetings and seminars; judged and developed young debaters' skills

2017

872 RCACS Band Conductor

2016

- Spearheaded re-establishment of brass and reed marching band at the 872 Kiwanis Kanata Air Cadet Squadron
- Led band to 2nd place at the Eastern Region Cadet Music Festival (Québec and Ottawa Valley) as conductor
- Taught cadets to play instruments and introduced them to diverse repertoire

2017

Concours d'art oratoire

2016

2015

- French speaking contest with thousands of registered participants
- First place in Ontario impromptu provincial competition (2017)
- Second place in Ottawa impromptu category (2015)
- First place in Ottawa (2014)

2017

Glider Pilot License

2016

- Achieved license after doing practical flight examination, written examination, and Aviation Language Proficiency Test
- Currently hold Radio Operator's License from Industries Canada

2017

Spanish Club, Games Club Co-Organizer

2016

2015

- Organized events (salsa and merengue day, cacti fundraiser, *Día de reyes* gift exchange, *Día de muertos* altar and potluck) and meetings for both clubs at Colonel By Secondary School

Work/Volunteer Experience

Groundschool Instructor (2015-2017)

- Ensured that cadets had a grasp of basic to intermediate skills in navigation and meteorology

French Tutor for young FSL learner (2015-2017)

- Explained concepts in simple, understandable terms

Finance/Canteen Sergeant (2016)

- St-Jean Eastern Region Gliding School
- Applied language skills by working and creating documentation in both English and French
- Negotiated promos/benefits on behalf of cadets