
Education

- Mar 2020 – Nov 2025 **Monash University, Melbourne.**
B.S. in Electrical Engineering and Computer Science
- Jan 2018 – Dec 2019 **Victorian Certificate of Education, South Oakleigh College.**
Class of 2019 Dux Award, ATAR: 97.6

Experience

- Apr 2021 **Contract Web Developer, Publio, <https://publioofficial.com>.**
Designed and developed the website for an online sneaker reselling business with JavaScript, React and GatsbyJS.
- Iterate and improve design by reviewing Figma design mockup with client.
 - Automate inventory database synching process with custom Python scripts saving hours of repetitive continual work.

Projects

- Jun 2019 – Present **Typings, <https://typings.gg>.**
Built a typing test website with Go, SQLite, HTML, CSS and JavaScript.
- 20,000+ monthly active users.
 - Increased average time on site by 150% by implementing custom color themes.
- Sep 2021 **Space Invaders, <https://github.com/bbriano/spaceinvaders>.**
Developed a space invader game with TypeScript and RxJS.
- Simplify codebase by programming in a functional style by leveraging RxJS operators to handle user input, manage frame timing and update game state.
- Nov 2020 **The Tower, https://github.com/bbriano/the_tower.**
Developed an ASCII graphics detective game for a school project with C++.
- Feedback: “The work demonstrates an exceptionally clear understanding of the subject matter and appreciation of issues. It is clearly and logically organised with excellent presentation. It addresses all of the assessment criteria to a very high standard. The work provides evidence of insight and originality where appropriate.”

Activities

- Apr 2021 **Algorithmic Trading Competition, IMC.**
Designed and implemented an algorithmic trading strategy in Python.
- Won 2nd place by earning the second highest profit in the simulated exchange.
- Apr 2021 **Hackathon, HackMelbourne, <https://github.com/bbriano/twinder>.**
Wrote a chat application that automatically puts people with similar interests in a group with Python, Flask, and SocketIO.
- Implemented login system, matching algorithm and real-time chat feature.
 - Worked effectively with a group of four engineers under time pressure (48 hours).
- Feb 2021 **Programming Bootcamp Tutor, Monash University.**
Tutored four undergraduates in how to use Python to solve coding challenges.
- Survey shows student are more confident after completion of the bootcamp.

Skills

Go C C++ Python JavaScript Java SQL AWK Unix GDB/LLDB Git Docker