

QUICK FACTS

Languages: Java, Golang, MySQL, Javascript(M.E.A.N.js), C/C++, Python, R

Internship: GO microservices for ZALORA (Southeast-Asian market-lead e-comm)

Military: (Singapore) Ex-Medical Corps, outstanding performance rating (top 5%)

// Resume for BRANDON TONG E: brandonidas@gmail.com W: brandonidas.github.io

EDUCATION

BSc. Double in Computer Science & Statistics, (A) average (2018 - est. 2023),
University of British Columbia (UBC), Canada. Third-year standing.

Dip. Financial Business Informatics (2012 - 2015), Temasek Polytechnic, Singapore. Top 2% Awards: Economics, Sociology

WORK EXPERIENCE

Software Engineer (Intern), mentored under Head of Mobile Development
ZALORA (Southeast Asia, Singapore), Mobile Backend, JUL - DEC 2020

- Improved, performed code reviews and resolved tickets, on a mission critical REST API gateway (~100,000 requests per minute on sale days)
- Collaborated with data science team to integrate a recommendation microservice into API gateway (Golang & Apache Thrift)
- Contributed recommendation interface to an internal backend Golang SDK

Teaching Assistant, Software Construction, Data Structures & Algorithms

University of British Columbia, Computer Science Dept., SEP 2018 - JUL 2020

- Chosen by grade and recommendation of multiple TA's and Professors
- Held office hours and labs, wrote assignments, 600+ students so far
- Managed multiple student personal projects for Software Construction requirements
- Honed communication skills for abstract & complex subject matter

PROJECTS (* see more/demo on website)

Choiciture, **Full-Stack Javascript** *

- Self-taught MongoDB, Express, Angular, Node.js, and AWS hosting in 3 months to design and develop an Instagram-like social polling app.
- Awarded place at NUS-AcreWhite InnovFest.

Buses R Us, a **transit app** with real-time bus locations and time estimates *

- Converted UML diagrams into Java OOP with robust tests and exceptions
- Parsed JSON API for dynamic bus routes and plotted data onto a map

Lossy Image Compression Algorithm, C++ *

- 40-60% compression, exploited QuadTree to achieve $O(n \cdot \log_4(n))$ runtime
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SMALL PROJECTS & MICROCOURSES

Machine Learning - OCR neural net from Machine Learning (ML) with Andrew Ng, Kaggle (Python) Pandas, Intro. ML & Intermediate ML

Golang - Tour of Go, (Udemy) Web Development in Go, Collaboration and Web Crawling in Go

Web Programming - MySQL database for a simulated hospital, Personal Website with Javascript demos ([brandonidas.github.com](https://github.com/brandonidas)); Codeschool: Angular.js, Express.js, Node.js

MILITARY SERVICE

(Singaporean) Medical Corps, Military Medicine Institute (2015 - 2017)

*Conduct & Performance ratings: **Outstanding (top 5%)**, Division's Best Soldier (2016) award.*

Medical Officer Assistant (Psychiatric)

- Drafted clinical and forensic documents for vetting
- Supported medical officers in a high stress, high confidentiality environment.

Clinical Support Team In-Charge

- Led a team; administered, and observed patients.
 - Oversaw the user transition from a legacy system to an electronic patient care system. Noted user experience hurdles. Trained new medical officers.
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Extra-Curricular: UBC Boxing Instructor and Exhibition Fighter

Personal Interests: longevity science, running, audiobooks, productivity hacks

* see more/demo at [brandonidas.github.com](https://github.com/brandonidas) | References available upon request