

# Tuan Anh Tran Caraballo

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[www.tuancaraballo.com](http://www.tuancaraballo.com)  
<https://github.com/tuancaraballo>

## EDUCATION

### **Stanford University – Stanford, CA**

- B.S., Computer Science (expected graduation: 2018)

## WORK EXPERIENCE

### **Admission Associate, Stanford Office of Undergraduate Admissions – Stanford, CA** **June 2014-present**

- Present Stanford admission information to audiences of 90-120.
- Worked on projects for multiple teams, including collaborating to construct admission case studies.

### **Research Intern, Pediatrics Department Stanford School of Medicine – Stanford, CA** **January 2013-Sept 2014**

- Contributed to the development of a collagen patch containing Follistatin-like 1 (FSTL1) that helped regenerate cardiomyocytes upon induced heart attack
- In charge of mice genotyping and other lab work such as media preparation and autoclave.

### **Tour Guide, Sinh Café Tourism Agency - Ho Chi Minh City, Vietnam** **February 2010- September 2010**

- Led Spanish-speaking tour groups around Ho Chi Minh City to places of cultural interest.

### **Squad Leader, Tank Artillery Specialist, Cuban Armed Forces – La Havana, Cuba** **May 2008- January 2010**

- As squad leader, provided mentorship and management for over 15 soldiers.
- Specialized as a PKM-tank machine gunner.

## PROJECTS:

### **Heap Allocator: (C language):**

- My partner and I built a heap allocator using a segregated list of free blocks, which delivered a greater throughput and efficiency than our initial implicit list of free blocks.
- We worked through pair programming to implement the functions free, malloc and realloc, which resulted in exceeding the target benchmarks.

### **Photo-Sharing Application (MEAN stack)**

- Designed and built a Single Page Application site using MongoDB, Express, Angular and Node framework.
- Some of the functionalities include user registration, log in and log out, commenting, photo uploading, liking photos, activities feed, etc.

### **Unagi Task Manager (Android)**

- Developed a task manager during a full-week Android boot camp hosted by Twitter to improve users' productivity with the usage of Twitter.
- Technologies I used include: Twitter Fabric API and basic firebase.

### **Pyxis Explorer (Android)**

- This is an ongoing project I started this summer. I'm building Pyxis using Google reverse geolocation, Google Places API, OpenweatherApi, among others APIs, to help travelers explore what's around them such as places of interests, local news, meetups, their current address, coordinates, weather news, etc. This way users' won't need to download multiple apps, but just one. (Visit my site for updates/details)

## SKILLS:

- Proficient: C, C++, Java, HTML, CSS, JS, Angular, Node, Mongo, Android, Single Page Applications.
- Basic: Python, MySQL, SQLite, Firebase, R, recommendation systems.
- English, Spanish, basic Vietnamese.

## RELEVANT COURSEWORK:

- **CS106B** (Data Structures), **CS107** (Computer Organization Systems), **CS110** (Principle of Computer Systems), **CS102** (Intro to Big Data), **CS142** (Web Applications), **CS193A** (Android Programming).