

EDUCATION

Tufts University, Medford, MA

May, 2020

BS: *Computer Science, Cognitive and Brain Sciences*

CS Major GPA: 3.93 & **CBS Major GPA:** 3.89

GPA: 3.85 / 4.0

Honors: Dean's List, K.J. Fitzgerald Scholarship, Scholastic Gold Key, Belmont Scholarship

PROJECTS & RELEVANT COURSES

Relevant Courses: Data Structures, Machine Structure/Language, Discrete Math, Linear Algebra, GUI, Algorithms

Projects: More available at barieom.com

- **Punto Art Museum App** – implemented Flask/Firebase database for a map-based phone app (on Apple App Store)
- **Cats & Dogs** – Created a head movement game, aiming to develop toddler's body coordination, using Tracking.js
- **Image Compression Program** – implemented an image compression and decompression program in C

SKILLS & INTERESTS

Technical Skills: C, C++, Python, Java, MATLAB, HTML5 / JavaScript / CSS, SQL, LaTeX, Google Analytics

Languages: English, Korean, Japanese (all fluent)

Interests: being a pessimistic LA Chargers fan, NFL & MLB stats, soccer, cooking, philosophy of mind

EXPERIENCE

TAMID National Consulting Committee, *Business Intelligence Chair*

Jan, 2018 – Current, Medford, MA

- Created databases of all 46 TAMID chapters and its members to quantify the progress of each consulting projects – around 150 total ongoing projects; implemented improved systems/methods for tracking consulting projects.

Tufts Integrative Cognitive Neuroscience Lab, *Research Associate*

Feb, 2017 – Current, Medford, MA

- Authored a paper publication to a scientific journal about a research on VTC and mind-wandering; detail below
- Formulated and executed a research to pioneer the standardization of mind-wandering, a crudely subjective state of mind, by mapping correlation through Variance Time Course based data analysis via MATLAB and Python scripts

Tufts TAMID Group, *Director of Consulting, Project Manager*

Nov, 2016 – Current, Medford, MA

- Directed 6 independent consulting teams working with 6 startups and orchestrated a consulting team for a consulting project with *CureFacts*, a startup company based in Israel – via industry analysis and market research
- Lead weekly education seminars about the cornerstones of consulting expertise and various Harvard Business Review Case Studies; and organizing TAMID related events – e.g. Startup Nation Tech Fair & Pitch Competition

Tufts Human Computer Interaction Lab, *Research Assistant*

Sep, 2017 – Current, Medford, MA

- Investigated methods to implicitly prevent individuals from mind wandering via music by identifying FNIR cursors to investigate mind wandering levels, relaying auditory signals to subjects in a superficially unnoticeable method

Tokyo University of Agriculture & Technology, *Field Researcher*

Jun – Jul, 2017, Andong, S. Korea

- Documented and supervised the collection of field samples to examine contamination levels in the Andong, South Korea to investigate the regional environmental pollution committed by Poongsan Corporation

Harvard Chemical Biology Dept., *Shakshnovic Research Group Intern*

Jun – Aug, 2015, Cambridge, MA

- Pioneered and discovered one of the causations for protein toxicity by creating a framework and executing a research plan to investigate the effect of protein toxicity in events of excess protein in the molecular level

LEADERSHIP ACTIVITIES

Coffeehouse for a Cause, *Founder & Former Director*

Sep, 2014 – May, 2016, Belmont, MA

- Established & directed town-wide annual charity event that has [raised \\$15,000](#) for homeless community in Boston

Leonard Carmichael Society, *Executive Coordinator*

Oct, 2016 – Current, Medford, MA

- Lead the largest organization at Tufts by coordinating biannual fundraising events, organizing web/electronic data, and managing administrative operations; currently working on establishing a *Coffeehouse* fundraiser for Tufts

Tufts University Department of Computer Science, *Teaching Assistant*

Aug, 2017 – Current, Medford, MA

- Held office hours to assist students in homework projects, taught coding skills, lead weekly laboratory sessions

Tufts University Undergraduate Admissions, *Service Assistant*

Aug, 2016 – Aug, 2017, Medford, MA

- Managed and organized database information pertaining to Tufts University admissions for prospective students

JumboCode, *Project Associate*

Aug, 2017 – Current, Medford, MA

- Created an accessible map-based phone application for Punto Art Museum in Salem's Point Neighborhood