

## EDUCATION

**Tufts University**, Medford, MA

May, 2020

*BS: Computer Science, Cognitive and Brain Sciences*

**GPA: 3.85 / 4.0 | SAT: 1550/1600 (M800, E750)**

**Honors:** Dean's List, Kevin J. Fitzgerald Scholarship, Scholastic Gold Key Award, Town of Belmont Scholarship

## EXPERIENCE

**Integrative Cognitive Neuroscience Lab**

**Medford, MA**

*Tufts University, Research Associate*

February, 2017 – Current

- 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 VTC (Variance Time Course) analysis via MATLAB and Python scripts

**TAMID Group**

**Medford, MA**

*Tufts University, Director of Consulting, Consulting Project Manager, & Cofounder* November, 2016 – Current

- Orchestrated a consulting team for a consulting project with CureFacts, an online medical resource startup, to give our client a competitive edge over the likes of WebMD and Healthgrades – 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

**Human Computer Interaction Lab**

**Medford, MA**

*Tufts University, Research Assistant*

September, 2017 – Current

- 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**

**Tokyo, Japan**

*Tokyo University of Agriculture & Technology, Field Researcher*

June, 2016 – July, 2016

- 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 University Chemical Biology Department**

**Cambridge, MA**

*Shakhnovic Research Group, Intern/Research Associate*

June, 2015 – August, 2015

- 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

## SKILLS, PROJECTS & INTERESTS

**Technical Skills:** C, C++, Python, Java, MATLAB, HTML / JavaScript / CSS, SQL

**Skills:** Statistical/data analysis, Google Analytics, consulting, business analysis, market research, project management, strategic programming, public speaking

**Languages:** English, Korean, Japanese (all fluent)

**Interests:** NFL & MLB statistics, soccer, cooking, classical music, poetry, philosophy of mind

### Projects:

- **Image Compression Program** – implemented an image compression and decompression program in C
- **Punto Art Museum** – implemented Flask/Firebase database for a map-based phone application (on app-store)
- **Cats&Dogs** – Created a head movement based game in JS using Tracking.js
- More available at [www.barieom.com](http://www.barieom.com)

## LEADERSHIP, ACTIVITIES & MISC. EXPERIENCE

- **Coffeehouse for a Cause, Founder & former Director** – Founded, established, and directed a town-wide annual charity event that has raised \$15,000 for the homeless community in the Greater Boston Area
- **Leonard Carmichael Society, Executive Coordinator** – Lead LCS, an organization with 30+ community service based clubs with 1200+ members, by coordinating biannual fundraising events for nonprofit, charity based organizations, organizing LCS related online-based data, and managing administrative operations within LCS
- **Tufts University Department of Computer Science, Teaching Assistant** – Held office hours to assist students in homework projects and teach programming skills as well as leading weekly laboratory sessions
- **Tufts University Undergraduate Admissions, Customer Service Assistant** – Managed and organized database information pertaining to Tufts University admissions for prospective students
- **JumboCode, Project Associate** – Created an accessible map based phone application for Punto Art Museum, Salem's Point Neighborhood based art organization