

TRUNG T. NGO

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[Personal Website](#) | [GitHub](#) | [LinkedIn](#) | [HackerRank](#), [LeetCode](#) | [Quora](#)

EDUCATIONS

CLARK UNIVERSITY, Worcester, MA

B.A in COMPUTER SCIENCE | B.A in MATHEMATICS (Math + CS GPA: 3.5)

August 2014 – May 2018

HARVARD EXTENSION SCHOOL, Boston, MA

Course: Advanced Mobile (iOS) Programming in Swift

June 2016 – August 2016

SKILLS

+ Programming

- **Proficiency:** Java | Swift | JavaScript | HTML5 (Pug) | CSS3

- **Familiarity:** Python | C | C++ | C# | Matlab | R | Bash (shell) | Haskell | Go

+ **Database:** MySQL | NoSQL | PostgreSQL | Hadoop

+ **Development tools:** XCode | IntelliJ | Brackets | Eclipse | Visual Studio | Unix/Linux | Vim | UML

+ Libraries & Platforms

- **Web Technologies:** Bootstrap | JQuery | React.js | Node.js | AWS | Web Services (XML, HTTP) | Spring

- **Library/Framework:** iOS | UIKit | NumPy | Matplotlib | Google Map | Foursquare | ASP.NET | OpenCV

- **Miscellaneous:** [Version Control: Git | Bitbucket], [Testing: JUnit, A/B], [UX Design: Moqups | Adobe Illustrator, Sketch]

INDUSTRY/WORK EXPERIENCES

PaperAirplane, Boston, MA

Work Experience/ May 17- Oct 17

Software Engineer Intern – iOS & Full-stack Web Development

- Designed and tested iOS prototypes featuring **geo-fencing** in **Swift**, fetching data from **Google Map** & **Foursquare** APIs
- Helped built the company's commercial web app (preliminary version) for partners to register their venue, ads and future events.
 - **Front-end:** Designed UI with **HTML5/CSS3**, **Bootstrap**, and **JQuery**, components with **React.js** with some charting in **D3.js**
 - **Back-end:** Built the web server side in **Node.js**, with the database in **Mongo DB**. Used testing with **Mocha** and **Chai**, and automated the workflow with tools like **Grunt** and **npm** scripts.

Boston University, Boston MA

Published Research / May 16 – August 16

Undergraduate Research Assistant/Programmer

- Designed features of **image filtering and social media sharing** in **C#** based on **EmguCV** to the assistive desktop app called, **Camera Canvas**, integrated with the mouse-replacement video-input interface, **Camera Mouse**, to help the disabled draw and filter photos
- Published the research work on **Springer** (over 400 downloads so far) and presented it at **HCI International Conference 2017**

Clark University

Campus Job/ January 16 – Now

Computer Science/Mathematics Teaching Assistant

- Assist the professor, for the course of **CS: Data Structure, Automata Theory & Math: Discrete Mathematics, Multivariate Calculus**, to grade the set of assignments and take-home projects for more than 30 students
- Hold weekly office hour for helping students solve coding and math problems and review for the tests

ADDITIONAL PROJECTS

Harvard Extension School | iOS app (beta version) – Soccerify

Independent / June 16 - August 16

- Designed a user-interface and data model for the **iOS app** in **Swift**, called **Soccerify**, the soccer media app to check match results in time and rate/ comment about them with others.
- Designed with **MVC pattern**, designed UI storyboard, retrieved data from **Soccerama.pro**, and integrated it with **UIKit**, **MapKit**, and a **Cocoa Touch** framework (**AFNetworking**).

Clark University | GMM for a simple Speech Recognition test

Independent/December 16 - December 16

- Optimized the **Gaussian Mixed Model** (GMM) in **Python** to apply into simple speech recognition tests
- Collected a set of audio files (.wav) to parse them into the feature file (.feat) as input for testing

EXTRACURRICULARS/ AWARDS

+ **Human Computer Interaction International 2017 Conference** in Vancouver- Presentation Participant

+ **2015 – 2017 Putnam Competition** – School Participant
+ **Clark University Mathematics Association** - Treasurer

RELATED COURSEWORKS

COMPUTER SCIENCE

- Algorithm, Analysis of Programming Language, Computer Organization and Assembly, Analysis & Design of Algorithm, Computer Networking, Machine Learning, Operating System & Numerical Analysis, [currently]: Distributed System, Theory of Computation, Database System Design

MOOCs: Software Debugging, Software Testing (*Udacity*), Machine Learning (*Coursera*), [currently]: Database Design (*Udemy*), AWS & DevOps Essentials Trainings (CERTS School)

MATHEMATICS: Linear Algebra, Probability & Statistics, Stochastic Modeling, Differential Equation

¹ As in **JANUARY 2018**