

# DANG (DANNY) PHAN

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## EDUCATION

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**Brandeis University** – Waltham, MA Aug 2018 - Expected May 2022  
Bachelor of Science – Computer Science, Economics GPA: 4.0/4.0  
Dean's List

*Relevant Coursework:* Advanced Programming Techniques, Data Structures and the Fundamentals of Computing, Structure and Interpretation of Computer Programs, Fundamentals of Artificial Intelligence, Applied Linear Algebra, Multi-variable Calculus

**Budapest University of Technology and Economics** – Budapest, Hungary Jun – Jul 2019  
Certificate – Mobile Software Development

## SOFTWARE SKILLS

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Java, Python, Kotlin  
HTML, CSS (SASS), JavaScript, SQL  
Angular (AngularJS), React, SQLAlchemy, Flask, MySQL, Docker  
STATA, R, MATLAB  
Microsoft Office, Adobe XD, Photoshop and Illustrator, Android Studio, macOS, Microsoft Windows

## EXPERIENCE

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**Brandeis Computer Science Department** – Waltham, MA Aug 2019 – Present  
*Teaching Assistant (COSI 10A & COSI 29A)*  
- Organize and lead recitations for 200 undergraduate/graduate students  
- Hold weekly office hours and review sessions helping students with their challenges in the course  
- Assist professors with grading assignments, reviewing course materials and other related tasks

**Brandeis Skunkworks Initiative** – Waltham, MA Aug 2019 – Present  
*Software Engineer (Course Scheduling Team)*  
- Conducted research with professors and departmental representatives and designed the website's UI/UX with Adobe XD  
- Implemented preference sorting algorithm and course scheduling website using React

*Web Developer (Web Development Team)* January – May 2019  
- Developed additional feature (social networking) and updated the User Interface for the Brandeis Hoot website  
- Built the organization's website with Bootstrap, HTML, CSS, and JavaScript

**CONERA** – Hanoi, Vietnam Jul – Aug 2019  
*Software Engineer Intern*  
- Learned Full-stack Web Development within 1 month under CTO's guidance  
- Developed an Event Management website for event coordinators using Angular as a Front-end framework (HTML, Sass, Typescript), Flask as a Back-end framework (Python), and MySQL for database  
- Designed data architecture using ER/Studio and utilized Docker for easier DevOps

## RECENT PROJECTS

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**Chatbot** – Waltham, MA Nov 2019  
Created a Python Deep Learning chatbot using NMT - Neural Machine Translation (seq2seq) with TensorFlow. Trained the bot using ~54 million Reddit comments from Jan 2015. (Python, SQLite, JSON, TensorFlow)

**MusicLyrics** – Waltham, MA Aug 2019 – Present  
Developed a web application where users can input words and obtain a list of songs with lyrics and audio preview. Designed an algorithm to identify the mood of the song based on BPM, genre, key, valence, and lyrics. (Angular, Python, RESTful API, JSON)

**Hospital Health** – Budapest, Hungary Jun 2019 – Present  
Built an Android mobile application about providing necessary information about medical assistance to users. Current features are Health News, Nearby Hospital tracking, and Appointment Reminder. (Android Studio, Kotlin, XML)

## ACTIVITIES

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**Publicity Chair**, Brandeis Korean Student Association – Waltham, MA Aug 2018 – Present  
**Marketing Communications Coordinator**, Vietnam Organization for Gender Equity – Hanoi, Vietnam Jan 2017 – Aug 2018