

DANG (DANNY) PHAN

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EDUCATION

Brandeis University – Waltham, MA

Aug 2018 - Expected May 2022

Bachelor of Science – Computer Science, Economics

GPA: 4.0/4.0

Honors: Dean's List

Relevant Coursework: Object-Oriented Programming, Data Structures, Structure and Interpretation of Computer Programs, Fundamentals of Artificial Intelligence, Applied Linear Algebra, Database Management Systems, Theory of Computation, Capstone Project for Software Engineering

Budapest University of Technology and Economics – Budapest, Hungary

Jun – Jul 2019

Certificate – Mobile Software Development

SOFTWARE SKILLS

Programming Languages: Java, Python, Kotlin, Scheme

Front-end Development: HTML, CSS, Sass, JavaScript, TypeScript, Angular, React, Node.js, Bootstrap, Redux

Tools: SQLAlchemy, Flask, MySQL, SQLite, Docker, VirtualBox, Java Swing, Git, Anaconda, Jupyter, Heroku

Data Science & Machine Learning: Stata, R, MATLAB, pandas, NumPy, scikit-learn, Matplotlib, LightGBM, TensorFlow

Software: Atom, Eclipse, PyCharm, Visual Studio Code, Github Desktop, Android Studio, ER/Studio

EXPERIENCE

Brandeis Computer Science Department – Waltham, MA

Teaching Assistant

Aug 2019 – Present

(Introduction to Programming in Python, Discrete Structures, Structure and Interpretation of Computer Programs)

- Organize and lead recitations, weekly office hours, and review sessions for 200 undergraduate/graduate students
- Assist professors with grading assignments, reviewing course materials and other related tasks

Brandeis Skunkworks Initiative – Waltham, MA

Software Engineer

Jan 2019 – Present

- 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 with Redux
- Built the organization's website with Bootstrap, HTML, CSS, and JavaScript
- Improved user-friendliness of the Brandeis Hoot website by developing the social networking feature and updating its UI

CONERA – Hanoi, Vietnam

Software Engineer Intern

Jul – Aug 2019

- Learned Full-stack Web Development within 1 month under CTO's guidance
- Developed an Event Management website using Angular, Python Flask, and MySQL allowing event coordinators to update monthly events, check in attendees using QR Code, and gather post-event demographic data and reviews
- Designed data architecture using ER/Studio and utilized Docker for easier DevOps

RECENT PROJECTS

Music 4 Mood – Waltham, MA

Aug 2019 – Jan 2020

Developed a web application where users obtain a music list with lyrics and audio preview by inputting words and their mood with Spotify API, MusicXMatch API or by recording music like Shazam with ACRCLOUD API. Designed an algorithm to identify a song's mood (happy, sad, energetic, calm) based on audio features. [Angular, Flask, Python, JSON, Heroku]

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]

Hospital Health – Budapest, Hungary

Jun 2019

Built an Android mobile application providing necessary information about medical assistance with features such as Health News, Nearby Hospital tracking (Google Places API), and Appointment Reminder (Room Persistence Library, SQLite). [Android Studio, Kotlin, SQLite, XML]

TwitterCloud – Waltham, MA

May 2019

Implemented a program that creates a word cloud (Kumo API) from words tokenized from tweets collected from Twitter (Hosebird API) and reports relevant data (the percentage of US citizens, total followers and statuses count, and top most used emojis). [Java]

ACTIVITIES

Publicity Chair, Brandeis Korean Student Association – Waltham, MA

Aug 2018 – Present