DANG (DANNY) PHAN

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EDUCATION

Brandeis University – Waltham, MA   *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, Artificial Intelligence, Database Management Systems, Operating Systems, 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, Ruby, SQL, 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*   *Aug 2019 – Present*
Teaching Assistant (Programming in Python, Discrete Structures, Structure and Intepretation 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
- Received positive feedback from assiting students with challenges in coursework and providing tutor sessions when necessary

Brandeis Skunkworks Initiative – *Waltham, MA*   *Jan 2019 – Present*
Software Engineer
- 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*   *Jul – Aug 2019*
Software Engineer Intern
- 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 – *Personal Project*   *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 – *Personal Project*   *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 University of Technology and Economics*   *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 – *Brandeis University*   *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]

ACTIVTITIES

Publicity Chair, *Brandeis Korean Student Association* – Waltham, MA   *Aug 2018 – Present*