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
Web Development: HTML, CSS, JavaScript, jQuery, TypeScript, Angular, React, Node.js, Bootstrap, Redux, Rails, Flask
Tools: MySQL, PostgreSQL, SQLite, Amazon S3, Docker, VirtualBox, Java Swing, Git, Heroku
Data Science & Machine Learning: Stata, R, MATLAB, pandas, NumPy, scikit-learn, Matplotlib, LightGBM, TensorFlow

EXPERIENCE

Brandeis Computer Science Department – *Waltham, MA*   *Aug 2019 – Present*
Teaching Assistant (Programming in Python, Discrete Structures, Structure and Interpretation of Computer Programs)
- Organize and lead recitations, weekly office hours, and review sessions for 200 undergraduate and graduate students
- Assist professors with grading assignments, reviewing course materials and other logistical tasks
- Received positive feedback from assisting students with challenges in coursework and providing tutor sessions

Brandeis Skunkworks Initiative – *Waltham, MA*   *Jan 2019 – Present*
Software Engineer
- Built the Teacher Preferences page for Brandeis Course Scheduling website using React with Redux
- Conducted research with professors and departmental representatives and designed the website's UI/UX with Adobe XD
- 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 via WebRTC, and gather post-event demographic data and reviews
- Designed data architecture using ER/Studio and utilized Docker for easier DevOps

RECENT PROJECTS

Brandeis Rate My Professor – *Brandeis University*   *Jan 2020 – May 2020*
- Led a Scrum/Agile team of 3 members to build a mobile-friendly Course Evaluation web application inspired by ratemyprofessors.com with Brandeis dataset.
- Implemented the Administrator Dashboard, Course Matching algorithm, Ask-and-Advice messaging platform with Push Notification, as well as Profile Picture and Social Login support with Google & Facebook OAuth.
[Ruby on Rails, WebSocket, Redis, Amazon S3 (AWS), PostgreSQL, Bootstrap, Heroku]

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]

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).
- The program also reports relevant statistics: percentage of US citizens, followers and statuses count, and top most used emojis.
[Java]

ACTIVTITIES

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