DANG NGUYEN

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EDUCATION

THE UNIVERSITY OF CHICAGO *Chicago, IL*
Bachelor of Science in Computer Science *Expected 2024*

UNITED WORLD COLLEGE OF SEA *Singapore*
International Baccalaureate Diploma *June 2020*
Final grade: 43/45
Honors included:
2019 IB Chinese Ab Initio Distinguished Award for Top 3 Students
2019 IB Academic Awards for English, Economics, and Mathematics

TECHNICAL EXPERIENCES

CHANCEMAP *Ho Chi Minh, Vietnam*
Co-founder, Programmer *May 2018-May 2020*
- Co-founded ChanceMap, a web application and student-run organization that connects students with extracurricular opportunities.
- Coded the functionality for users to create, view, and update Events using JavaScript, HTML/CSS, EJS, jQuery, NodeJS, ExpressJS, and MongoDB.
- Coded a messaging platform, user profile, functionality for users to connect with other users, events, jobs, and opportunities using Socket.IO.

MEALMATCH *Singapore*
Independent Programmer *Jan-Dec 2019*
- Built MealMatch, an Android app that makes meal planning convenient and easy for busy working adults, as the Internal Assessment project for the IB Computer Science course.
- Created the front end using XML, CardView, RecyclerView, Relativelayout, and LinearLayout.
- Created the back end using Java, Object Oriented Programming, Activities, and Fragments.
- Connected MealMatch's back end with the Firebase Realtime Database in order to store users and recipes' information.
- Created the functionality to match user preferences with recipes, and for users to create, view, edit, and delete their own recipes.

COMPUTER VISION RESEARCH *Singapore*
Independent Researcher *Aug-Dec 2019*
- Compared the performance of Viola-Jones (VJ) and Convolutional Neural Networks on Face Detection using speed, memory usage, precision/recall, and accuracy.
- Installed OpenCV's VJ algorithm and the Multi-Task Cascaded Convolutional Neural Network (MTCNN) using Python's pip.
- Wrote a Python script to measure VJ and MTCNN's speed and memory usage and to plot their precision/recall curve.
- Wrote the 4000-word IB Extended Essay reporting the research and received an A grade.

HOURGLASS *LaunchX, Northwestern University*
Co-founder, Chief Technology Officer *Jul 2019*
- Co-founded Hourglass, a company and chrome extension with a mission to eliminate distractions from college students' online workspace by monitoring their productivity in real time.
- Programmed Hourglass' front end using JavaScript and HTML/CSS.
- Programmed Hourglass' back end using Flask, BeautifulSoup4, and python-socketio.
- Used Universal Sentence Encoder, a Machine Learning Module on TensorFlow Hub, in order to compare the user's current webpage's content with a database of words and evaluate their productivity.

COMPUTER SCIENCE SKILLS

PROGRAMMING LANGUAGES
- Java, Python, JavaScript.

WEB DEVELOPMENT
- Front end: HTML/CSS, EJS, jQuery.
- Back end: NodeJS, ExpressJS, Flask, Socket.IO, python-socketio, MongoDB, BeautifulSoup4.

ANDROID DEVELOPMENT
- Front end: XML, CardView, RecyclerView, RelativeLayout, LinearLayout.
- Back end: Object-Oriented Programming, Activities, Fragments, Firebase Realtime Database.