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 SE ASIA   *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

UCARE RESEARCH GROUP   *The University of Chicago*
Reseach Assistant   *Jan 2021-Present*
- Assisted Professor Haryadi Gunawi in the Disk Latency Project, which aims to predict when SSDs and disks would exhibit high performance latency, as part of UChicago's Metcalf Internship Program.
- Met bi-weekly with NetApp in order to collect performance data from the company's enterprise disks, which enabled us to study and improve the threshold at which a drive is considered faulty in NetApp's disk error-logging system.
- Analyzed latency data from different storage systems of NetApp, each typically spanning 4-5 months and containing dozens of millions of performance logs, using Pandas and Python for graphing, in order to understand their drives' slow behavior.

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 to create, view, and update Events.
- Coded a messaging platform, user profile, functionality for users to connect with other users and to "interest" events, jobs, or opportunities.

COMPUTER VISION RESEARCH   *Singapore*
Independent Researcher   *Aug-Dec 2019*
- Compared the performance of Viola-Jones and Convolutional Neural Networks on Face Detection on speed, memory usage, precision/recall, and accuracy.
- Wrote the 4000-word IB Extended Essay, advised by Stephen Potter and Darren Benson, reporting the research and received an A grade.

HOURGLASS   *LaunchX summer program, Northwestern University*
Co-founder, Programmer   *Jul 2019*
- Co-founded Hourglass, a company with a mission to eliminate distractions from college students' online workspace.
- Programmed Hourglass' chrome extension using JavaScript and Python, which keeps track of students' productivity during study sessions.
- Incorporated Universal Sentence Encoder, a Machine Learning Module on TensorFlow Hub, into Hourglass' algorithm.

COMPUTER SCIENCE SKILLS

PROGRAMMING LANGUAGES
- C: intermediate proficiency, learned in CMSC 15200: Introduction to Computer Sience II.
- Java: intermediate proficiency, used in IB Computer Science and the development of MealMatch.
- Python: intermediate proficiency, used in Machine Learning projects, the development of Hourglass, and UCARE research.
- JavaScript: beginner proficiency, used in the development of ChanceMap and Hourglass.
- Typed Racket: beginner proficiency, learned in CSMC 15100: Introduction to Computer Science I.

WEB DEVELOPMENT
- Front-end: beginner proficiency with HTML/CSS, EJS, jQuery, ReactJS.
- Back-end: beginner proficiency with NodeJS, ExpressJS, Socket.IO, MongoDB.
- Beginner proficiency with the MVC (Model View Controller) framework for web development.
- Skills are applied in developing ChanceMap.

ANDROID DEVELOPMENT
- Front-end: beginner proficiency with CardView, RecyclerView, RelativeLayout, LinearLayout.
- Back-end: intermediate proficiency with Object-Oriented Programming, beginner proficiency with Activities, Fragments and Firebase.