

Mitchell Dang

mduw.github.io

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EXPERIENCE

Remote Fullstack Developer @ KyFlex | Ohio, USA

Jan 2021 – Present

- Improved at least 20% usability for booking and payment UI by simplifying user's workflow and caching user's session. Released features for social authentication and user's dashboard.
- Implemented CRUD for the backend powered by Python/Django, NodeJS, PostgreSQL, MongoDB, Git/GitHub, and Docker. Wrote logics handling user's permission and crossed table queries.

Web Developer & Event Coordinator @ UWB ACM | Bothell, USA

Mar 2020 – Mar 2021

- Developed the hackathon website uwbhacks.com for UWB Hacks from Home 2021 with 80+ participants and representatives from the software industry including Microsoft, Digital Oceans...
- Co-host/problem creator at [UWBCode 2020](https://uwbcodes.com) – a coding contest hosted by UWB ACM and Allen Institute for Brain Science via HackerRank with 100+ colleges students in the Pacific Northwest.

Undergraduate Researcher @ T4G Research Group | Bothell, USA

Dec 19 - Mar 2021

- Studied technical approaches for automatic hint generator for coding problems.
- Developed the research group's website at t4guw.github.io.

EDUCATION

University of Washington | Bothell, USA

Class of 2021

- Bachelor of Science in Computer Science & Software Engineering
- Annual Dean's List Honor.

Cascadia College | Bothell, USA

Class of 2019

- Associate Degree in Integrated Studies, President's Honor Graduate.
- Global Achievement Scholarship

Long An High School for Gifted Students | Long An, Vietnam

Class of 2017

- Specialized in Informatics

PROJECTS

Generating Hints for Programming Problems Without a Solution, ACM SIGCSE 2021 Paper

Sep 2020

- Collected problems and solutions from coding platforms to training a BERT model to learn and solve coding problems. Hints generated by the model have the accuracy up to 75%. The paper is presented at *ACM SIGCSE 2021*. DOI:<https://doi.org/10.1145/3408877.3439691>

MyGuru

Dec 2020

- Built a simple ASP.NET application hosted on Azure allowing users to retrieve weather data and fun facts about a specific location requested by users. Weather data is fetched from OpenWeather and Wikipedia by utilizing provided APIs.

- Write algorithms to solve coding problems for Leet Programming – an algorithm course on Stepik followed by 140+ learners. The course is live at stepik.org/course/72339/promo

Complete Bus System (CBS)**Jan 2020**

- Co-author of a scalable relational database for public transportation hosted on AWS using Python, T-SQL, Git, AWS Beanstalk. CBS supports transit companies in managing employees and routes data.

The Rubic Shoes**Honored in Embedded System, Vietnam Science & Engineering Fair 2016**

- Re-invented smart shoes to resolve visual impairment-related issues. Improved user's motion by at least 5% by utilizing echolocation technology to send warning sounds and vibration for possible obstacles within 12 feet, effective angle +/- 15 degree. Technologies: C, ultrasonic sensors, Arduino.

SKILLS/CERTIFICATES

- **Technical skills:** JavaScript, C/C++, Python/Django, MERN stack, Agile/Scrum, PERN stack, MVC, AWS, UI/UX design, Google Apps Script, GCP, Linux.
- **Non-technical skills:** English (Proficient), Vietnamese (Native), leadership and teamwork, event planning and management, active learning, critical thinking, mountain biking.
- **Certificates:** IBM Full Stack Cloud developer, Machine Learning by Stanford University (Coursera), LinkedIn skill assessment for C, Git.

EXTRACURRICULAR ACTIVITIES

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| • Participant | Google Hash Code 2019, USA |
| • Participant | Vietnam Olympiad in Informatics (VOI) 2016, Vietnam |
| • Runner-up | Long An Olympiad in Informatics 2016, Vietnam |
| • Bronze Medal in Informatics | Olympic 30/4 2015, Vietnam |