

# Mitchell Dang

mduw.github.io

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## EXPERIENCE

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**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](http://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](http://t4guw.github.io).

## EDUCATION

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**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

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**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](https://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**

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- **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                          |