

Quoc "Q" Cong

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Education

University of Michigan – Ann Arbor

Aug 2017 – Apr 2021

BSc. in Computer Science, Minor in Art & Design

GPA: 3.8/4.0

- **Relevant Coursework:** Computer Vision, Machine Learning, Web Systems, Computer Security, UI Development, Software Engineering, Video Game Development

Work Experience

Learning A-Z

May 2020 – Aug 2020

Software Engineering Intern, iOS Team

Ann Arbor, MI

- Advanced the parent portal to increase transparency into students' activity and learning progress
 - Integrated with existing backend APIs and frontend designs to develop features using **Swift**
 - Constructed layout files to ensure usability across multiple devices
 - Researched into and utilized third-party frameworks to create interactive graphs
 - Used **XCode Simulator** and **Postman** to thoroughly test new features and API requests
- Resolved and closed bug tickets on **FogBugz**, and performed smoke testing with the QA team
- Delivered a live teaching demonstration on REST APIs to the intern team

University of Michigan MDO Lab

May 2019 – Apr 2021

Front End Developer

Ann Arbor, MI

- Led the frontend remodeling of a web-based airfoil design tool
 - Initiated the migration to **Dash Plotly** framework for interactive graph visualization
 - Revamped the user interface for a more user- and mobile-friendly experience
 - Communicated frequently with clients to ensure the website quality is up to expectations
- Architected and maintained the official lab website using **Jekyll**, **Jekyll Scholar**, **HTML/CSS**, **JavaScript**
- Profiled and optimized the web build process by 10x to boost overall efficiency of the team

Amnesty International

Sep 2018 – Apr 2019

Intern, Global Engagement Internship

Ann Arbor, MI

- Promoted *Write for Rights* campaign to demand justice for victims of abuse and wrongful convictions
- Organized a statewide meeting to sensitize local support groups to the Refugee Crisis

Projects

UnBEElievable Visual Object Detection

Apr 2021

Explored dense object detection for tracking in a 2D honeybee hive.

- Partnered with 4 peers to design and implement the machine learning architecture (CNN and UNET)
- Performed connected component analysis on generated segmentation map to distinguish between bees
- Worked with **Google Colab**, **pyTorch**

Technical Skills

- **Languages** C++, C#, Python, HTML/CSS, JavaScript, Java, C, Swift, SQL
- **Tools** Git, Visual Studio, VSCode, XCode, Unity, PyCharm, JIRA, Android Studio
- **Frameworks & Libraries** Bootstrap, Jekyll, Dash Plotly, Flask, React, PyTorch, numpy