Corey Julian Wang

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EDUCATION

Northwestern University **Evanston, IL**
B.S. in Mechanical Engineering *Expected June 2023*
M.S. in Computer Science *Expected June 2023*

- Cumulative GPA: 3.86/4.00
- Relevant Coursework: Machine Learning, Programming for Big Data, Computational Photography, Discrete Math, Linear Algebra, Differential Equations, Calculus III, Robotic Manipulation, Design Thinking & Communication

EXPERIENCE

U.S. Cellular **Chicago, IL**
Analytics Intern Summer 2022

- Analyzed daily time-series KPI data from company database to be displayed in an interactive analytics web app
- Recreated existing variation detection program from scratch, end-to-end to include several features helpful to network engineers
- Conducted meetings to identify requirements and obtain feedback throughout the design process

Sustainable Computing Lab **Notre Dame, IN**
Undergraduate Research Assistant Summer 2021

- Worked alongside graduate student mentor to research use of AI in medical image segmentation using the PyTorch framework, NumPy, and other relevant libraries
- Ran and documented tests of existing state-of-the-art models as baselines for comparison to mentor's novel model

Pi Tau Sigma Honor Society **Evanston, IL**
President July 2022 - Present

- Mechanical engineering honor society; inducted on basis of academic performance
- Working with executive board, organized a department-wide mentorship program to help underclassmen get better acclimated to the college environment, curriculum, as well as answer any miscellaneous questions

Northwestern Solar Car **Evanston, IL**
Steering Subteam Lead Sept 2019 - Present

- Raised $2000 in a team pitch of projects and goals to executives of a Chicago manufacturing firm
- Increased safety and reliability of steering column by designing, modeling, and assembling a collapsible alternative

PROJECTS

- **Dog Classifier** (2022): Implemented a neural network using the PyTorch library to classify dogs based on images. Designed convolutional layers for feature extraction on images from the dog dataset. *Python, Pytorch, Numpy*
- **Trip Planner** (2021)**:** Implemented a trip planning API using various data structures and algorithms, capable of navigating routes given several positions of interest. *Racket (dialect of Lisp)*
- **IEEE Software Project** (2020). Helped a campus startup deploy their product by creating a fabric matching survey using MongoDB and an AWS Lambda function, working with a team and an upperclassman advisor
- **DTC Tablet Stand** (2019). Collaborated through engineering design process of initial interviews, background research, prototyping, and design reviews to develop an adapted tablet stand for the North Center, a school for students with developmental disabilities.

SKILLS

Languages: MATLAB, Python (NumPy, Pandas, PyTorch), C, C++, Java, JavaScript
Technologies: Git, Embedded Programming, MS Office Suite, LaTeX, PostgreSQL

AWARDS

- **Dean's List** (five quarters): Awarded for having a grade point average over 3.75 for a given quarter.
- **National Merit Finalist Scholarship** (2019 - present)