

Charlotte Yang

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[Github](#) • [LinkedIn](#) • [Website](#)

EDUCATION

University of Illinois Urbana-Champaign, Grainger College of Engineering, Urbana-Champaign, IL

Expected: May, 2025

Major: Bachelor of Science, Computer Science

Cumulative GPA: N/A

Relevant Coursework: Calculus III, Introduction to Computer Science I

Honors/Awards: Harmony Hacks 2.0 Honorable Mention, MIT Blueprint 3rd place, William Kendall Computer Science Award

Scholarships: Pilgrim Merit 10k Scholarship

PROFESSIONAL EXPERIENCE

MIT RAISE X SureStart, Cambridge, MA

July 2021 – August 2021

AI/ML Trainee

- Created sarcasm classifier employing feedforward neural network with RMSprop optimizer (71.6% accuracy)
- Developed gender classification CNN with dropout and batch normalization (86.2% accuracy)
- Achieved 78.7% accuracy in StackOverflow tag prediction by implementing fully connected neural network with average pooling
- Performed object detection and multi classification on real time waste imaging through customized YOLO architecture

Donald S. Marks Neurology Center, Plymouth, MA

September 2020 – June 2021

Web Development Intern

- Constructed website prototype at projected 40% reduced cost with HTML, CSS, and JSON
- Built SQL database supporting 100+ digital patient request forms
- Embed and validate clinical data into site, generating 200+ impressions

University of Massachusetts Boston Machine Learning Department, Boston, MA

August 2020 – April 2021

Student Researcher

- Analyzed correlation between 10 diabetes features and target values utilizing Pearson's correlation and mutual information scores
- Designed time series forecasting RNN, LSTM, CNN, and MLP models on Ding Ling's PM10 levels with 36.42 MSE
- Restructured and evaluated encoder and decoder model with 28.75 average MAE for PM10 time series forecasting

Boston University AI4ALL, Boston, MA

July 2020 – August 2020

Student Researcher

- Implemented emoji prediction through SGD classification with l2 regularization for 12.181 Macro F-score
- Configured Multilayer Perceptron classification on world happiness dataset for 78% accuracy
- Collaborated with team to present custom reinforcement learning pipeline utilizing DQN agents to audience of 30+ people

Braintree Tech Support, Braintree, MA

October 2019 – October 2020

IT Intern

- Update, re-image, and install new system software for 8 administrations
- Support team of 10 to conduct hardware diagnosis tests for 200+ corrupted devices
- Rewire and replace device RAM in distribution of 500+ chromebooks

LEADERSHIP & AFFILIATIONS

Thayer Public Library STEM, Braintree, MA

March 2019 – July 2021

Teen Advisory Board Member

- Spearhead STEM programs attracting 500+ attendees
- Established first coding curriculum and oversaw teaching of 15 students on Python

SKILLS & INTERESTS

Language: Mandarin (Elementary proficiency)

Computer: Java, C++, HTML, CSS, JS, Python, TensorFlow, Github, sklearn, PANDAS, MATLAB, Firebase database, SQL database, API integration, Fundamental Artificial Intelligence concepts