

Johnny Huang

Sophomore at the University of Michigan with more than 3 years of utility/energy industry experience developing business and technical solutions.

Ann Arbor, MI
New York, NY
(646)331-1845
johnnyh@umich.edu
linkedin.com/in/huang-johnny

EXPERIENCE

Con Edison – Compliance Management, New York Engineering Aide

June 2019 - Present

- Led a system-wide data clean up of Con Edison's Governance, Risk, and Compliance Software Suite (RSA Archer) to provide a more accessible repository of legal information to comply with all necessary regulatory requirements and compliance obligations
- Reengineered backend infrastructure, relations and data formatting to improve performance and optimize storage
- Created admin and user-based reports and dashboards for data visualization, data integrity, and system management
- Improved user experience to create a more intuitive and user friendly environment for legal, compliance, and operations users

Climate and Space Sciences and Engineering, Ann Arbor Undergraduate Researcher

October 2018 - May 2019

- Developed and trained a neural network that produces more accurate, long-term weather forecasts (>10 days) in advance in the Ann Arbor area via numerical weather models and predictive simulations
- Investigated and assessed forecast error of modern numerical and historical (GEFS) models to compare against a machine model
- Parsed 40 years of NetCDF data into more computable CSV data via python for machine learning training data

Con Edison – Construction Business, New York Co-op

January 2018 - August 2018

- Upgraded front-end user interface and backend infrastructure of a legacy web form using ASP.NET & VB allowing inspectors to submit field audits to ensure street mark-outs meet NYS subsurface digging regulations
- Optimized database performance by redefining table relationships, data types, and query logic and programmed stored procedures querying through 1,200+ records a year and 130,000+ records of inspections
- Minimized DOT Notice of Violations by creating analytics dashboards and reports to guide business decisions and facilitate contract bargaining

Con Edison – Regional Engineering, Brooklyn Intern

July 2017 - January 2018

- Improved reporting rates of network transformers by updating query logic in an Access database with VBA and SQL
- Verified data across asset databases and mapping systems, obtained loading information for large electric customers, and tracked high voltage distribution cable work as a part of larger electrical engineering projects
- Automated data entry processes requiring utilization of both internal and external applications using VBA and VBA

EDUCATION

University of Michigan

BSE Industrial & Operations Engineering
and Computer Science

August 2018 - April 2022

Brooklyn Technical High School

Mechatronics & Robotics Engineering

September 2014 - June 2018

LEADERSHIP

United Technologies for the Kids

Lead Instructor & Curriculum Dev.

UM First Generation Engineers

Chair of Corporate Relations

Michigan Mars Rover Team

Obstacle Detection Lead

Underwater Vehicle Design

Project Manager

BTHS Makerspace

Founder

SKILLS

Web Development, App Development,
Database Design & Management,
Robotics Controls, Machine Learning

SOFTWARE

Autodesk Inventor (Certified
Professional), Android Studio, LabView,
Multisim, Tableau, Archer RSA

LANGUAGES

C,C++, HTML, CSS, Javascript, ASP.NET,
GIT, Java, Python, SQL