

JACOB D. MEN

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EDUCATION

University of Illinois at Urbana-Champaign
Bachelor of Science in Math & Computer Science
Minor in Applied Statistics

May 2022
GPA: 3.92 / 4.00

WORK EXPERIENCE

Tesla

May 2020–August 2020

Intern, Controls Programming

Fremont, CA & Elgin, IL

- Implemented an alarm and safety system for an assembly line allowing for fast responses to malfunctions and automatic stops for errors using Ladder Logic
- Designed a responsive UI for tracking wireless hardware connectivity issues resulting in quick feedback and easy debugging using HTML, CSS, Python, and SQL
- Wrote detailed documentation for creating programming interfaces for new hardware that was used for guidance in several large-scale assembly projects

PROJECTS

CUBE Consulting Client Website

January 2020-May 2020

- Rewrote client's internal website for managing customer data to be more user friendly with a modern interface using HTML and CSS resulting in less user mistakes
- Ensured website was useable on all devices and screen sizes

Renaissance Image Style Transfer (https://github.com/mqian20/style_transfer)

August 2019-May 2020

- Wrote network architecture for a generative adversarial network, including the generator and discriminator, using PyTorch
- Analyzed and filtered WikiArt dataset to only allow for renaissance style images to be included in training using Python, Jupyter Notebooks, and Pandas

TeamUp (<https://github.com/jacobmen/TeamUp>)

September 2019-December 2019

- Created backend framework for web app using Python and Flask, allowing for a dynamic interface that updated for users instantly
- Designed and hosted a SQL database on AWS to hold user and project information that allowed for immediate communication with web app

TECHNICAL SKILLS

Languages: Java, C++, Python, Ladder Logic, HTML, CSS, JavaScript

Technologies: Flask, SQL, Pandas, Jupyter Notebooks, PyTorch, AWS (RDS, EC2)

EXTRACURRICULARS

Champaign Urbana Business & Engineering Consulting

September 2019-Present

Director of Project Acquisition

June 2020-Present

- Recruited and created project scopes for future clients
- Planned and ran a project management workshop

Consultant

September 2019-May 2020

- Conducted market research to help local startup know its viability in entering new market

Software Design Studio (CS 126) Course Assistant

May 2020-Present

- Ran a weekly code review session to give students feedback on style, readability, and organization
- Designed and wrote documentation for an assignment to be given to students