

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–Present

Controls Programming Intern

Fremont, CA & Elgin, IL

- Programmed a test stand to simulate various programming issues in a mini assembly line to be used when evaluating future candidates for similar roles using Ladder Logic
- 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

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

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

Team Up

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 (CUBE) Consulting

September 2019-Present

Director of Project Acquisition

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

Consultant

- 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