

Jack Ning

Software Engineer

Technical Skills

Python (Numpy, Django, Tensorflow & Keras, Pandas) C SQL (SQL Server) R (ggplot2, Shiny)
Javascript (D3.js) HTML CSS Github Microsoft Azure Java (Swing, javaFX) C++ (openFrameworks)
MIPS Assembly

Selected Personal Project - Game Night Website

Skills: Python (Django), Javascript (Canvas, DOM), HTML, CSS

Purpose: Design a club website for a school club (Game Night), in which I hold a leadership position

Description:

- Used the Django Web Framework to create a dynamic website with Python and made use of key features, such as templates
- Added style and interactivity into the website using a mixture of HTML, CSS, and Javascript Canvas and DOM

Source: <https://gamenightuiuc.com>

Cell: (864) 434 - 1296 **Email:** jhning2@illinois.edu

University of Illinois at Urbana-Champaign

GPA: 4.0 (James Scholar)

Majors: Statistics and Computer Science, Psychology

Relevant Coursework:

Data Structures
Algorithms and Models of Computation
Computer Security
Systems Programming

August 2018 - May 2021

Current Student

Work Experience

BP

Platform Engineering Intern, Chicago IL

Primary Project: OurSpot: Collaborative Workplace Scheduler

Skills: SQL Server (Azure), Power Platform (PowerApps, Power Automate), Agile Development (Kanban and Microsoft DevOps)

Purpose: Create an application aimed to ease the post-COVID transition back to bp offices through automated workplace scheduling

Description:

- Worked alongside a team of 5 other interns to plan and develop the application using Kanban-style agile development
- Familiarized myself with Microsoft SQL Server (backend) and PowerApps (frontend)
- Presented the app in the intern "hackathon" and received the award of "most complete" project - in addition, met with full time employee teams for project handoff and real deployment into bp offices

Altair Engineering

Machine Learning Intern, Troy MI

Primary Project: Defect Detection Neural Network

Skills: Python (Tensorflow/Keras), Microsoft Azure VM

Purpose: Create a convolutional neural network capable of detecting minute defects within material textures

Description:

- Used Tensorflow as a backend for the neural network and programmed in Python using the high level Keras library
- Leveraged Microsoft Azure virtual machines to provide quick and convenient model training using powerful GPUs
- Split data into training, validation, and test sets: the final model performed with high accuracy on the test set

Summer 2019

Summer 2020