

Daniel Yuan

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EDUCATION

UNIVERSITY OF ILLINOIS

Bachelor of Science in Electrical Engineering
Minor in Computer Science
May 2018

Urbana - Champaign, IL
Overall GPA: 3.50

Related Coursework:

ECE 385 - Digital Systems Laboratory
ECE 310 - Digital Signal Processing
ECE 342 - Electronic Circuits
ECE 470 - Robotics Laboratory

CS 440 - Artificial Intelligence
CS 420 - Parallel Programming
CS 446 - Bioinformatics
CS 225 - Data Structures

RESEARCH

Simulating Features for Structure from Motion Evaluation

- Creating a model for simulating feature extraction and matching from existing datasets to evaluate structure from motion algorithms
- Designing new workflow for comparing simulated and actual results

Champaign, IL
Fall 2017 - Ongoing

Using Fiducial Markers to Improve Structure from Motion

- Creating a system to use fiducial markers in the structure from motion pipeline for complex environments

Champaign, IL
Fall 2017 - Ongoing

OpenMVG Computer Vision Independent Study Project

- Implemented algorithm for refining pointclouds using GPS data
- Created new workflow to extract GPS data from image EXIF data and solve for cartesian coordinates to refine camera poses during bundle adjustment

Champaign, IL
Fall 2016

EXPERIENCE

Reconstruct Internship

Full Stack Web development

- Designed frontend and backend architecture for performance at scale
- Automated processes for data management in MongoDB and S3
- Utilized AWS cloud services for scalable deployed environments

Champaign, IL
Summer 2017
Summer 2016

Reconstruct

Part Time Computer Vision Engineer

- Benchmarked structure from motion algorithms for quality and speed
- Automated collection of benchmark metrics for previous reconstructions

Champaign, IL
Spring 2017

CAFASC Website Redesign

- Redesigned website for the Chinese American Faculty of Southern California
- Designed and built architecture for inexperienced web managers

Champaign, IL
Spring 2015

PROJECTS

Evolution Gym Personal Project

- Created environment to benchmark and understand different learning methods, including genetic algorithms, Q-learning, neural networks.
- Implemented randomly seeded terrain generation for tile-based survival environment

Ongoing
Summer 2017

AWARDS

Deans List for Academic Excellence

UIUC
Fall 2014

SKILLS/LANGUAGES

Python, C++, C, Node.js, HTML, CSS, Java, Assembly, System Verilog, Lua, Matlab