Przemek Gardias

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EDUCATION

Worcester Polytechnic Institute

Worcester, MA M.Sc. Computer Science May 2020 - May 2021

Worcester Polytechnic Institute

B.Sc. Computer Science Cum Laude Aug. 2016 - May 2020

PROJECTS

M.Sc. Thesis: Identifying Positive Classroom Climate

May 2020 - May 2021

Worcester, MA

- o Created a deep learning system in PyTorch for evaluating classroom Positive Climate (PC) based on studentinstructor interactions
- Built a novel dataset for learning child identities by matching face images to fine-tune an embedding network to 0.98 AUC for consistent feature extraction from classroom video
- o Trained a graph convolution network to infer PC from a social graph and then provide teachers feedback about overall PC and warnings of 30-second intervals of a low PC environment

Enhanced Residual Networks for Context-based Image Outpainting

Jan. 2020 - May 2020

- o Designed a generative adversarial network with residual pathways and joint local and global discriminators for image outpainting on Places365-Standard
- o Published results with improved feature consistency and 26% lower adversarial loss: arXiv:2005.06723 [eess.IV]

Automated Corrosion Assessment and Data Collection

Jan. 2020 - May 2020

- o Created software to automate corrosion sample collection by U.S. Army Research Lab data scientists, then validated workflow and system functionality on-site at Cape Canaveral Air Force Station
- o Developed iOS application and Django RESTful API to transmit encrypted sample data and serve endpoints for machine learning model predictions of corrosion ratings as per ASTM D1654

B.Sc. Thesis: Augmented Reality for Improving Human-Swarm Interaction

Aug. 2019 - Mar. 2020

- o Designed a Magic Leap application through which a user commands a swarm of robots to move real objects by manipulating their virtual representations using an intuitive combination of voice and gesture controls
- o Provided visual feedback to the user about the state of the swarm, such as color-coding robots and the object they cooperatively move or highlighting robots which fail to communicate

WORK EXPERIENCE

Worcester Polytechnic Institute

Worcester, MA

Teacher's Assistant

August 2020 - May 2021

o Assisted with teaching and grading for CS 541: Deep Learning and CS 4518: Mobile & Ubiquitous Computing

Graduate Research Assistant

May 2020 - August 2020

o Collaborated with Professor Whitehill to proof tracking-based CLASS climate prediction models in simulation

Proofpoint

San Francisco, CA Jun. 2019 - Aug. 2019

Software Engineer Intern

o Developed containerized testing environment with CLI for quick, iterative testing on developer machines

o Created product backend testing jobs in Jenkins deployment pipeline, towards full CI/CD automation

Cloudflare San Francisco, CA

Sales Operations Engineer Intern

Jun. 2018 - Aug. 2018

- o Developed scripts for asynchronous evaluation of client site service status for 100x speed-up
- o Designed heuristic-based systems to generate sales leads using scraped data

SKILLS

Languages: Python, C++, Java, Go, C, Bash

Frameworks: NumPy, PyTorch, TensorFlow, Keras, SciKit, SciPy, OpenCV, Pandas, Matplotlib

Software: Linux, Git, Jupyter Notebook, Docker, CUDA, Make

Compute: Amazon Web Services, Google Cloud Platform, SLURM-based Linux clusters

Awards: Dean's List: Fall 2017, Fall 2018, Spring 2020