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FDUCATION

CARNEGIE MELLON UNIVERSITY

MS IN COMPUTER SCIENCE RESEARCH THESIS PROGRAM Aug 2019

Advisor: Keenan Crane

CARNEGIE MELLON UNIVERSITY

SCHOOL OF COMPUTER SCIENCE MINOR IN ROBOTICS May 2018 | University Honors

GPA: 3.88 | Dean's List (5x)

COURSEWORK

GRADUATE

Machine Learning (PhD) Computational Photography (PhD)

UNDERGRADUATE

Computer Graphics Distributed Systems Computer Systems Parallel Algorithms & Data Structures Imperative Computation **Functional Programming** Deep Learning Algorithm Design & Analysis Great Theoretical Ideas in CS Complexity Theory Software Security & Privacy General Robotics

TECHNICAL SKILLS

PROFICIENT

Pvthon • C++ • C • Standard ML Linux/Unix • Windows • OSX

EXPERIENCED

C# • Unity • Unreal Engine • Go Java • Scala • Matlab • Git • ŁTĘX

PROJECTS

URBAN SEARCH & RESCUE

ROBOTICS COMPETITION (2ND) 2018 | Carnegie Mellon University

ARTBYTES3: ART PANDORA

MOST INNOVATIVE APP 2015 | Walter's Art Museum

GOPILOT: MEDICAL SIRI Most Useful App (2ND) 2015 | University of Pennsylvania

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

Summer 2018 | New York, NY

- Worked on the Google Daydream team to develop virtual and augmented reality apps that employ machine learning and computer graphics.
- Implemented a virtual reality plugin for Unity using C# and C++ that dynamically recognizes and morphs user virtual handwriting into text.
- Prototyped an augmented reality android app in Unreal Engine using C++ that also understands and morphs user handwriting on planar surfaces.

YAHOO! | Software Engineering Intern

Summer 2017 | Sunnyvale, CA

- Implemented code logic in Scala that connects an assistant Kik bot to direct chats with users and an image processing service that manipulates user images.
- Developed an image processing tool in Python that automatically generates a variety of magazine covers from user images using dlib and OpenCV for face and contour detection, as well as machine learning models to predict emotion.
- Designed and implemented Swagger API in Scala that fetches recommendations for discounts and similar consumer products for shopping emails in Yahoo mail.

METTLER TOLEDO | Software Quality Assurance Intern Summer 2016 | Columbia, MD

- Managed pre-production scripts to ensure product safety and intuition when deploying new code and features, primarily managed in Visual Studio and C#.
- Optimized legacy code through smoke, regression, and performance testing and detected sources of error prone features from newer updates.

CARNEGIE MELLON UNIVERSITY | TEACHING ASSISTANT

Spring & Fall 2017 | Pittsburgh, PA

- Computer Graphics (2x TA) assisted students in building their own SVG rasterizer. 3D mesh editor, offline Monte-Carlo raytracer, and animator in C++.
- Imperative Computation introduced students to data structures and algorithms through labs, emphasizing correctness of code using contracts in CO.

RESEARCH

INSTITUTE FOR SOFTWARE RESEARCH | Spring 2018 - Present

Advisor: Pooyan Jamshidi, Carnegie Mellon University

- Exploring design space of deep neural networks in terms of network architecture, hyper-parameters, and deployment over hybrid environments.
- Developing genetic algorithms to optimize structure of neural networks.

COMPUTER GRAPHICS GROUP | FALL 2017 - PRESENT

Advisor: Keenan Crane, Carnegie Mellon University

- Implemented 3D fabrication techniques in C++ using cut optimization algorithms and successfully produced real world models with a cut printer.
- Presented work at Carnegie Mellon's Undergraduate Research Showcase.

THE ROBOTICS INSTITUTE | FALL 2015 - SPRING 2016

CoBot Robots and BioRobotics Lab, Carnegie Mellon University

- Implemented a motion-sensor using Arduino for CoBot to deliver candy.
- Worked with the Da Vinci Medical Research Kit used for minimally invasive surgery to improve quality number of Trakstar data.