

Run Wang

runw@clemson.edu | +1 (518) 961-8733 | Clemson, SC | runwang123.github.io

EDUCATION

Clemson University	Clemson, SC
<i>Ph.D. Student in Computer Science</i>	<i>Aug. 2025 – Present</i>
– Concentration: 3D Computer Vision and Trustworthy AI for Autonomous Vehicles	
Carnegie Mellon University	Pittsburgh, PA
<i>M.S. in Electrical and Computer Engineering (Applied Advanced Program)</i>	<i>Sep. 2021 – May 2023</i>
Rensselaer Polytechnic Institute	Troy, NY
<i>B.S. in Computer & Systems Engineering</i>	<i>Sep. 2017 – May 2021</i>

SKILLS

Programming: C, C++, C#, Python (PyTorch), Java

Tools & Frameworks: Docker, Kubernetes, Terraform, Hugging Face

Research Areas: Deep Learning, 3D Computer Vision, AI Security, Autonomous Driving

PUBLICATIONS AND ACKNOWLEDGEMENTS

R. Wang *et al.*, “Lightweight Detection of Abnormal Battery Drain Induced by Network Operations of Mobile Apps,” **IEEE INFOCOM**, 2026.

R. Wang *et al.*, “MAPP: Predictive UI View Pre-caching for Improving the Responsiveness of Mobile Apps,” **IEEE/ACM IWQoS**, 2025.

W. Zhang *et al.*, “Component Segmentation of Engineering Drawings Using Graph Convolutional Networks,” *Computers in Industry*, vol. 147, Art. no. 103885, 2023. (Acknowledged Contributor)

RESEARCH EXPERIENCE

Graduate Research Assistant	Aug. 2025 – Present
<i>Clemson University</i>	<i>Clemson, SC</i>
– Supervisors: Dr. Siyu Huang and Dr. Mert D. Pesé	
– Conducting research on 3D computer vision and trustworthy AI for autonomous driving systems.	
Graduate Research Associate	May 2024 – Aug. 2025
<i>The Ohio State University</i>	<i>Columbus, OH</i>
– Supervisor: Prof. Xiaorui Wang	
– Designed machine learning models and time-series algorithms for mobile and edge performance optimization.	
– Contributed to papers accepted by IEEE IWQoS 2025 and IEEE INFOCOM 2026.	
Research Assistant	May 2022 – May 2023
<i>CERLAB, Carnegie Mellon University</i>	<i>Pittsburgh, PA</i>
– Supervisors: Prof. Kenji Shimada and Dr. Wentai Zhang	
– Developed deep learning methods for component extraction from engineering drawings.	
– Adapted PSPNet, DeepLabV3+, and SketchGNN, achieving 84% overall accuracy.	
Research Assistant	Jan. 2022 – May 2022
<i>CyLab, Carnegie Mellon University</i>	<i>Pittsburgh, PA</i>
– Supervisor: Dr. Cai Yang	
– Collected and analyzed 80+ Linux-based malware samples via dynamic system-level tracing.	
– Constructed an in-house behavioral dataset with 14 discriminative features.	
Research Assistant	Jan. 2020 – Dec. 2020
<i>RPI-IBM Cognitive and Immersive Systems Lab</i>	<i>Troy, NY</i>
– Supervisors: Dr. Jeff Kephart and Dr. Xiangyang Mou	
– Implemented a real-time gesture recognition system using C# and Python with Intel RealSense cameras.	
– Collected 600+ gesture samples and extracted skeletal motion features.	

INDUSTRY EXPERIENCE

Application Developer – Full Stack <i>Computer Packages Inc.</i>	May 2023 – Apr. 2024 Rockville, MD
– Supported migration from legacy systems to modern architectures while ensuring data integrity. – Optimized SQL Server queries using stored procedures and execution plan tuning.	

PROJECT EXPERIENCE

User Recommendation Microservice <i>AWS, Kubernetes, Spark, FastAPI, Vert.x</i>	Aug. 2022 – Dec. 2022
– Developed Spark-based ETL pipelines to preprocess ~1TB Twitter dataset on GCP Dataproc. – Orchestrated AWS infrastructure and achieved 10,000 RPS within \$0.7/hr budget.	