

RUITAO WU

Software Engineer



Personal Page



RuitaoWu



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OBJECTIVE

I AM LOOKING FOR AN ENTRY LEVEL SOFTWARE/FRONT-END/BACK-END ENGINEER TO START MY CAREER JOURNEY WITH MY PASSIONATE AND AMBITIOUS IN PROGRAM AND COMPUTER SCIENCE.

THE SYSTEMS AND INTELLIGENCE LABORATORY | Research Assistant Present | San Diego, United States

- Demonstrated expertise in actively contributing to an NSF-funded project centered on air traffic flow management and robotic systems.

THE AUTONOMY RESEARCH CENTER | RESEARCH ASSISTANT

June 2021 – May 2022 | Northridge, United States

- The individual demonstrated a proactive involvement in multiple Computer Science and Engineering projects, exhibiting adaptability, collaborative teamwork, and practical application of technical expertise.

PROJECTS

SENIOR DESIGN CALTRANS PROJECT | PYTHON, MACHINE LEARNING

2021 - 2022

- Proficient in accurately labeling vehicles in LiDAR point clouds and efficiently converting the results into a machine-readable TXT format for training machine learning models.
- Implement OpenCV and YOLO create prototype that can access webcam and detect object
- Effectively collaborate with stakeholders and team members, adeptly translating user requirements to optimize project execution, and deliver meticulous weekly progress reports highlighting encountered challenges to supervisors.

DBMS WEB-BASED PROJECT | JAVASCRIPT, EXPRESS.JS, HTML, MYSQL

2021/7 - 2021/08

- Design ERD(Entity Relational Diagram) for Blog website and query scripts that enable user insert, delete, and search data from database
- Build a web page for users and enabled registration new account, post comment, and search features.

VIDEO WEBPAGE | REACTJS, MATERIAL UI, NODE.JS,RAPID API

2021/06 - 2021/07

- Implement ReactJS to develop dynamic and visually appealing video webpages, integrated Material UI, as well as RESTful API to retrieve and handle backend data.

SMART CONNECTED WORKER | JAVASCRIPT, FLASK, HTML

2021/06 - 2021/07

- Design single page website to visualize real-time and historical accumulate energy consumption data

SKILLS

PROGRAMMING

JAVA • Python • C/C+
JavaScript • MySQL • Flask
L^AT_EX • ReactJS • Git

EDUCATION

SAN DIEGO STATE UNIVERSITY

MASTER'S IN COMPUTER SCIENCE
Present | San Diego, CA

CSU, NORTHRIDGE

BACHELOR'S IN COMPUTER SCIENCE
May 2022 | Northridge, CA
College of Engineering and
Computer Science

COURSEWORK

- Machine Learning
- Database Theory and Implementation
- Web Engineering
- Software Engineering
- Algorithm Analysis and Design
- Wireless Networks
- Scientific Computing
- Advanced Distributed Systems
- Adv Multimedia Networks

LANGUAGE

- Chinese
- English

AWARD/HONORS

DEAN'S LIST FALL 19 | FALL 20 | SPRING 20
California State University, Northridge

SENIOR DESIGN SHOWCASE FIRST PLACE IN COMPUTER SCIENCE

DEPARTMENT SPRING 22

ORAL PRESENTATION: 3D OBJECT DETECTION AND VEHICLE CLASSIFICATION BASED ON LIDAR POINT CLOUDS TO MONITOR REAL-TIME TRAFFIC FLOW

California State University, Northridge

CONFERENCE

IEEE GREEN ENERGY AND SMART SYSTEMS CONFERENCE (IGESSC 2022) Date:

November 7-8, 2022 Location: Virtual

PUBLICATION

R. WU, ET AL "REAL-TIME VEHICLE DETECTION SYSTEM FOR INTELLIGENT TRANSPORTATION USING MACHINE LEARNING," 2022 IEEE GREEN ENERGY AND SMART SYSTEMS (IGESSC), LONG BEACH, CA, USA, 2022, PP. 1-6, DOI: 10.1109/IGESSC55810.2022.9955329.

MEMBERSHIP

THE SYSTEMS AND INTELLIGENCE (SMILE) LABORATORY, STUDENT MEMBER

Present

NASA -- THE AUTONOMY RESEARCH CENTER FOR STEAHM, STUDENT FELLOW

2021

ASSOCIATION FOR COMPUTING MACHINERY, STUDENT MEMBER 2021

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, STUDENT MEMBER 2021