

JOSE S. GALLO

Houston, TX | P: +1 346-491-2606 | gallojsantiago@gmail.com

EDUCATION

CARNEGIE MELLON UNIVERSITY

Bachelor of Science in Artificial Intelligence and Robotics

Relevant Coursework: Algorithms, Data structures, Computer systems, Linear algebra, Vector calculus, Intro to AI & Robotics

Pittsburgh, PA

Aug 2023 - Expected May 2027

THE AWTY INTERNATIONAL SCHOOL

High School and IB Diploma

Houston, TX

Aug 2016 - May 2023

WORK EXPERIENCE

HUMAN-COMPUTER INTERACTION INSTITUTE (Research lab)

Research assistant

Pittsburgh, PA

Feb 2024 - Ongoing

- Worked with PhD students at CMU in partnership with Yiya AirScience's virtual classroom technology, delivering education to remote and underserved communities across Uganda
- Processed large student course data using Python and Pandas, ensuring data integrity for future regression analysis

ZENUS, INC. (zenus.ai) | Facial analysis startup)

Intern and shadowed the CTO

Austin, TX

July 2022 - Aug 2022

- Optimized Python code for prototyping to improve deep learning resource management by cleverly using multiprocessing and queues to resize bounding boxes
- Helped repair broken Zenus Smart Cameras by reinstalling and configuring firmware and GNU/Linux OS

COUNTRYWATCH, INC. (countrywatch.com) | Geopolitical intelligence services)

Data Analyst Intern

Houston, TX

Jun 2022

- Assisted in data visualization and analysis of large scale datasets involving international affairs and economics
- Analyzed large spreadsheet data and designed world maps for better data visualization with Figma and PowerPoint
- Automated map-generating process by making a standalone Java application with JavaFX and Apache Commons libraries

LEADERSHIP EXPERIENCE

AWTYBOTS FIRST ROBOTICS COMPETITION TEAM (awtybots.org)

Team Captain and Head CAD designer

Houston, TX

2019 - 2023

- Managed design process of robot and coordinated tasks among team members by mentoring new teammates with robot assembly, cutting parts, and Computer Aided Design
- Chief designer of our robot that made it to Texas State Championships for the first time in our team's history

THE BRIARWOOD SCHOOL LEGO ROBOTICS PROGRAM

Lead Mentor

Houston, TX

2021 & 2022

- Designed curriculum for a week-long summer camp for middle schoolers with learning differences (ADHD, autism, dyslexia)
- Ensured organization of LEGO kits inventory and organization of Briarwood classrooms, coordinating with school faculty
- Recruited volunteers with experience and taught basics of robotics and programming with LEGO kits

PERSONAL PROJECTS

HOUSTON AIR POLLUTION FORECAST (github.com/gallo-json/air-pollution-forecast)

Jan 2021 - Apr 2021

- Created website to warn Houstonians from low-income neighborhoods and at-risk citizens of extra-polluted days and areas
- Cleaned 30 years worth of daily air pollution data from SQL databases and built TensorFlow deep learning model for time-series prediction
- Made video documenting process for a competition, received over 1000 views and 300 likes

SELF-DRIVING ROBOT (github.com/gallo-json/self-driving-robot)

Jan 2020 - July 2020

- Programmed a miniature self-driving car using NVIDIA Jetson Nano Developer Kit to navigate a model of city roads
- Leveraged YOLO deep learning algorithm in PyTorch to detect stop signs and traffic lights and stop on these inputs
- Presented project to NVIDIA Deep Learning Institute and received Jetson Nano AI Specialist certificate