XUANZHE HAN

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EDUCATION

Master of Science in Computer Science   **2024 - present**
University of California, Los Angeles

Bachelor of Science in Computer Science   2020 - 2024
University of California, Los Angeles

SKILLS

Proficient Languages	C/C++, Python, Java, JavaScript, HTML, CSS
Familiar Languages	TypeScript, Scheme/LISP, OCaml, SQL
Frameworks and Tools	ROS, React, Git, PyTorch, Flask, MongoDB, Web Storage API

EXPERIENCE

Systems Research Intern   September 2024-March 2025
Nissan Group North America, Inc.
Developed heuristics for constraint-based routing and real-time update framework from various data sources. Worked closely with teams developing routing systems for autonomous vehicles, and built a data processing pipeline that processes sensing data collected during drives. The pipeline converts data into digestible inputs for ML-based routing algorithms to make time-accurate and customizable routing decisions based on information like pedestrian count, school zones, road obstructions, etc. Used ROS and C++ extensively.

Web Development Intern   October 2023-Jan 2024
Tap Series, LLC.
Built web tools for administration and assisted other programmers in updating designed web apps. Built a web visualization tool that takes sales and customer interaction data, parses and displays it by time, region, and customer information like age and gender. The tool is easy to navigate and use for the administration to make informed decisions. Worked with React, Flask, and Twilio Sendgrid REST API.

Facial Action Unit Detection Research Intern   August-September 2023
Huazhong Science and Technology University.
Assisted with research on facial action unit detection for automated facial expression recognition. Helped with adapting existing ML models like JAANet to new datasets used by actively-researched models so they can be used as baseline models. Mostly worked with PyTorch and scikit-learn.

RELATED COURSEWORK

Operating systems, algorithm and complexity, design and use of programming languages, compiler construction, computer network design, computer systems architecture, parallel and distributed computing, data management systems, NLP, computer vision, web application development

EXTRACURRICULAR ACTIVITIES

Webmaster, biomedical and mechanical keyboard team lead for 3D4E   2022-2024
Maintained the 3D printing club's website. 3d4eatucla.github.io
Led design teams to create projects like oximeters and macro pads.

PROJECTS

Check GitHub for code: github.com/HiccupHan
SlangLingo
A LLM translation React Web App to handle tricky slang translations.
ResuMatch
A Chrome extension that matches user resume to LinkedIn.