Alex Chen

Dallas, TX, USA

(469)-588-4979 | alexchen@smu.edu | linkedin.com/in/alexchans | github.com/alexchans

Education

Southern Methodist University, Dallas, TX   January 2025—May 2028 (Expected)
Ph.D. in Computer Science (Research Focus: Artificial Intelligence in Healthcare)
● Conduct research on predicting early symptoms of Alzheimer through AI
Southern Methodist University, Dallas, TX   August 2022—Dec. 2024
Bachelor of Science: Computer Science – Artificial Intelligence and Machine Learning Track
● **GPA:** 3.893/4.0
● **Scholarships:** Honor Transfer Scholarship, June/July Intersession Scholarship

Publications

● Cheng Huang, Qiuyu Luo, Mohammad Ausaf Ali Haqqani, Junhao Shen, Beichen Hu, Chang Liu, Yuxuan Sun, **Dongyang Chen**, Weizheng Xie, Tsengdar Lee, and Jia Zhang. **"GB-YOLO: Abnormal Target Detection and Segmentation for Industrial Remote Sensing"** *IEEE Signal Processing Letters*, 2024.
● Cheng Huang, Junhao Shen, Beichen Hu, Qiuyu Luo, **Dongyang Chen**, Karanjit Kooner, Tsengdar Lee, Yongbin Yu, and Jia Zhang. **"DA-SPL: Dual-Attention Semantic Parallel-LSTM Network for Medical Report Generation"** *IEEE Transactions on Medical Imaging*, 2024.

Experience

Research Assistant, **Southern Methodist University,** Dallas, TX   August 2024—Present
● Conduct research on AI related topics.
Summer Research Intensive, **Southern Methodist University,** Dallas, TX   May 2024—August 2024
● Write and use Python class for various lab instruments (i.e. spectrum analyzer) to perform QA test on VTRX+ transceivers for the ATLAS experiment at CERN in SMU's Physics Electro-Opto lab.
● Maintained and organized the lab environment, including hardware setups and labeling
● Participated in weekly SRI meetings to discuss and report progress on assigned tasks
Teaching Assistant, **Southern Methodist University,** Dallas, TX   August 2023—May 2024
● TA for Discrete Comp Structures, graded students' HWs, quizzes, and exams
● Tutor students throughout the week in topics such as graph theory and proofs both in person and online
● Help professor with proctoring quizzes, exams, and setting up zoom meetings for lectures

Skills

● **Programming Languages:** C++, Java, JavaScript, Objective C, Python, Swift, TypeScript, CSS, HTML, SQL
● **Tools**: CLion, Excel, Git, GitHub, IntelliJ, MySQL, Node.js, Notion, PowerPoint, Project, React, React Native, Spring Boot, Visual Studio Code, Word, Xcode

Projects

Employment Agency   January 2024—April 2024
Web application used for an employment agency to connect temporary workers with employers.
● Implemented a secure multi-user login system and account management for staff, employers, and professionals.
● Created efficient job matching algorithm to pair professionals with suitable job opportunities based on their qualifications.
● Built using React as the front end, and Spring Boot as the back end with MySQL as the database