#### Baichuan Li

## Curriculum Vitae

College Station, TX — bl30@tamu.edu — (217) 607-4443 https://www.linkedin.com/in/baichuan-li-b0b694184

#### **EDUCATION**

## Master of Science Computer Science

Year of completion: 2025

Institution: Texas A&M University

Department: Department of Computer Science & Engineering

Accomplished coursework: Data structures, Algorithms Analysis, Data Science, Object Oriented Programming, Software Engineering, Artificial Intelligence, Computer Organizations, Virtual Reality, Data Visualization, Robotics & Spatial Intelligence, Human-AI Interaction.

#### Bachelor of Science in Mathematics

Year of completion: 2022

Institution: University of Illinois at Urbana-Champaign

Department: College of Liberal Arts & Sciences

Accomplished coursework: Linear Algebra, Probability Theory, Discrete Mathematics, Abstract Algebra,

Calculus, Real Analysis.

#### **EMPLOYMENT**

#### Information Technology Intern

06/2023-08/2023

Institution: YAPP USA Automotive Systems, Inc.

Department: Technology department

- Offered hands-on technical support to end-users, skillfully resolving software-related issues, both onsite and remotely, leading to a 20% decrease in the overall number of support requests.
- Delivered renovate on company's official website, include updating the website content, adding product descriptions, images, technical specifications, and relevant documentation by CSS, HTML and JavaScript to ensure accuracy and consistency.

## **PUBLICATIONS**

#### Conference Journals

Sun, Xiqing, Baichuan Li, and Huatian Pang. "Portfolio construction for pharmaceutical industry." E3S Web of Conferences. Vol. 275. EDP Sciences, 2021.

# RESEARCH EXPERIENCE

## Autonomous Driving Volunteer Researcher

09/2023-Present

Institution: ENDEAVR Institute(Texas A&M University)

- Execute computer vision algorithms operating OpenCV, and YOLOv8 for object detection and tracking, enabling the vehicle to identify and react to pedestrians, vehicles, and road signs.
- Construct and integrate a pseudo LIDAR system by setting up several cameras and utilizing feature matching algorithms to calculate the depth of objects, revamping the perception capabilities of the autonomous vehicle and reducing costs compared to traditional LIDAR sensors.

## Research on AI Tools Tracking Student Handwriting Progression

02/2024-Present

Institution: Texas A&M University

- Automate the diagnosis of handwriting deficiency using computed features and machine learning techniques.
- Establishing guidelines and features for an efficient handwriting monitoring system tailored for teachers.
- Creating a prototype based on feedback from day care teachers and education practitioners, ensuring the system aligns with practical needs in the educational context.

# PROJECT EXPERIENCE

### NXTFOLIO Creative Fashion App Project

01/2023-05/2023

- Implemented Agile methodology and coded using Ruby on Rails to develop a visual "LinkedIn" app for Creative/Visual/ Fashion industry professionals, matching professionals based on specific job needs.
- Optimized search engine by deploying specific sorting and filtering algorithms to generate more accurate keywords matching and display priority.

- Devised a matching system for professionals to upload visual portfolios and find matches of other professionals based on specific job needs.
- $\bullet$  Utilized Cucumber testing framework as a BDD approach to perform comprehensive testing of the application.

# TECHNICAL SKILLS

- •Programming Languages: Java, Python, C++, C, Ruby&Rails, MySQL, Shell Script, JavaScript, HTML, CSS.
- •Frameworks: Express, Node, Pandas, OpenCV, React, Unity, Robot Operating System (ROS).
- •Tech-Stack: Git, Cucumber, BootStrap, Linux, Github, Restful API, SaaS, Auto testing, Latex.