

Justin Xia

(330) 232-6880 | U.S. Citizen | jxia74@gatech.edu | linkedin.com/in/justinxia | github.com/justinxia

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science

May 2026

Bachelor of Science in Computer Science

May 2025

Concentrations: Intelligence and Systems & Architecture

GPA: 4.0/4.0

Core Courses: Design and Analysis of Algorithms, Design of Operating Systems, Systems and Networks,

Introduction to Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Computer Vision

EXPERIENCE

Union Pacific

May 2024 – Present

Software Engineer Intern

Omaha, NE

- Created a Spring Boot back-end to compile a report of thousands of incoming trucks at 16 intermodal ramps
- Converted legacy Wicket-based screens to Angular for a more dynamic and responsive user interface
- Integrated feedback from users to enhance functionality, boosting ramp ingating productivity by 20%
- Performed data processing to assist in creating a machine vision model to detect people near railroads

Datapath

Jan. 2024 – May 2024

Software Development Co-op

Duluth, GA

- Developed a linter tool for checking code syntax, replacing currently used services and saving \$40,000 a year
- Wrote and updated drivers for various serial and SNMP devices to connect to customers' monitoring software
- Reviewed deliverables and documentation created by other coworkers before they are sent to the client

Georgia Tech Research Corporation

May 2023 – Dec. 2023

IT Student Assistant

Atlanta, GA

- Utilized scripts to streamline the process of setting up devices, reducing the time to set up by 50%
- Troubleshoot network devices, ensuring that they were accessible for all employees and functioned properly
- Resolved tickets for various technology-related issues that other employees need assistance with

PROJECTS

Synthia AI | Python, HTML, CSS, JavaScript, Django, Next.js, Heroku

Jan. 2024 – Apr. 2024

- Developed an online interview platform that custom-tailors questions to candidates' experience and the job posting
- Leveraged LLM and OCR technologies to parse through resumes, ask detailed questions, and provide feedback
- Achieved 98% transcription accuracy and presented resume and interview feedback within 10 seconds

Credit Card Fraud Detection | Python, Scikit-learn, pandas, NumPy

Sep. 2023 – Dec. 2023

- Trained a machine learning model for credit card fraud detection, achieving an Matthew's Coefficient of 0.86
- Conducted comprehensive data preprocessing, including feature scaling, normalization, and correlation analysis
- Performed model evaluation using confusion matrices and precision-recall metrics to ensure robust performance

GT Transfer | Python, MySQL, PHP, Selenium

Feb. 2023

- Created a website to assist Georgia Tech students with transferring college credit from other universities
- Utilized a web scraper to collect course transfer information for 77,000 courses from 2,000 schools

LEADERSHIP

Phi Kappa Theta

Apr. 2023 – Apr. 2024

Vice President

Atlanta, GA

- Led a committee of 20 people in planning 33 social events with a total budget of \$50,000
- Coordinated philanthropy efforts to raise \$1,700 and contribute 540 man-hours to local charities and organizations
- Maintained connections with alumni and organize alumni gatherings with a budget of over \$1,000 per event

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, C, Tcl, PHP, SQL, PowerShell

Frameworks: React, Node.js, React Native, Next.js, Django, Wicket, Spring Boot, Angular

Developer Tools: Git, Docker, AWS, VS Code, IntelliJ, Netlify, Jira, Subversion

Libraries: pandas, NumPy, Matplotlib, Selenium, PyTorch, Scikit-learn