

# Logan Jackson

Plano, TX | [logan.lieou@gmail.com](mailto:logan.lieou@gmail.com) | <https://github.com/LoganLieou>

## EDUCATION

The University of Texas at Dallas, Richardson, TX  
*Bachelor of Science, Computer Science*

Expected Graduation May 2024

## WORK EXPERIENCE

### Walmart Global Tech

June 2022 – August 2022

*Software Engineering Intern*

- Extended picking event retention and analysis by engineering Java Spring service to consume 50k+ picking events per minute from Kafka, storing those events in Azure Cosmos DB instance, and exposing 10 API endpoints for usage in frontend visualization
- Increased scope of analysis by FTEs in order to determine long term and emergent trends in picking data via 10 custom data visualizations using Next.js, D3.js, and Tailwindcss
- Aligned business requirements by engaging in agile methodology and collaborative coding process with team of Walmart Software Engineers, internal customers, and other interns

### Dell Technologies

January 2020 – May 2020

*Software Engineering Intern*

- Achieved ~80% increased throughput on set of APIs used by 20 interns
- Allowed for seamless communication between front and backend teams by producing RESTful API with 4 endpoints using Express.js to communicate between Unity game engine VR space and Angular web application portal

### Texas Department of Transportation

June 2019 – August 2019

*Summer Intern*

- Improved record archival by 300% automating proprietary process using python pandas
- Decreased space requirements for legacy records by 80% compiling 300+ historic rail agreements from the past 100+ years

## ACADEMIC PROJECTS

### Explainable AI for Applications in Medicine

September 2022 - December 2022

*ACM Research Lead*

- Worked to lead a team of 4 undergraduates in 10 week long research project concerning Automated Reasoning and Explainable AI in collaboration with professor Gopal Gupta
- Arbitrated disagreements within the team, and aligned research goals with professor and team interests in mind

### Machine Learning and Parametric Design for Sustainable Living

February 2022 - May 2022

*ACM Research Lead*

- Mentored a team of 4 undergraduate participants on machine learning and parametric design concepts in weekly meetings leading to better understanding of topics by participants
- Lead communication between 4 undergraduates and a faculty advisor for weekly research meetings

### Deep Learning for Brain Disorders

September 2021 - December 2021

*ACM Research Participant*

- Worked with a team of 3 undergraduate researchers and a professor on the task of classifying and detecting brain disorders, developing 5 deep learning models resulting in over 95% test accuracy
- Presented project results at end of semester symposium for 4 professors and an audience of 40+ UTD students

### CAPTCHA Image Analysis and Test Automation

September 2021 - November 2021

*AI Society Mentee*

- Collaborated with a team of 2 other students on CAPTCHA test automation and implemented a Convolutional Neural Network that extracts text with 90% accuracy
- Developed a bot using selenium and our model for real world use cases bypassing online CAPTCHA tests 70% of the time

## TECHNICAL SKILLS

Languages: Python, C++, Java, Javascript, Typescript, C#, Go, Rust, Swift, SQL, R, MATLAB, Julia, Prolog, OCaml, HTML/CSS, LaTeX  
Technologies: AWS EKS, AWS IAM, AWS S3, AWS ECS, AWS EC2, AWS Amplify, AWS Elastic Beanstalk, AWS ECR, AWS QLDB, AWS Lambda, Azure App Service, Azure Kubernetes Service, Azure Cloud Functions, Azure Cosmos DB, Docker, Docker Compose, Spring Boot, Apache Kafka, Spring Data JPA, Swagger, Slf4j, JUnit, Mockito, Flask, Django, React, React Native, Next.js, Tailwindcss, Node.js, Express.js, D3.js, Angular, Pandas, Tensorflow, Pytorch, Numpy, Matplotlib, Seaborn, Postgres SQL, MySQL, SQLite3, MsSQL, Cassandra  
Tools: Linux (coreutils, vim, cron, etc.), Git, Jira, Confluence, IntelliJ, Jupyter, Visual Studio, XCode, Splunk, Github, Gitlab, Github Actions