

Joseph Lee

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EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science in Computer Science

Aug. 2021 - December 2025

- UGS Dean's List 2021: Top 4% GPA in School of Undergraduate Studies
- Coursework: Machine Learning I, Systems for ML/Big Data Processing, Software Engineering, Algorithms, Operating Systems, Computer Organization and Architecture, Linear Algebra, Data Structures, Probability and Statistics

EXPERIENCE

Human-AI Interaction Lab

May 2024 – Present

Full-Stack Developer & Undergraduate Research Assistant

Austin, TX

- Develop lab website using React, Tailwind CSS and Next.js
- Implement responsive design and perform SEO optimization

Cenik Lab

May 2023 – July 2023

Undergraduate Research Assistant

Austin, TX

- Programmed a Python script using Seurat to process RNA sequencing data, reducing processing time by 20%
- Investigated applications of systematic reconstruction of cellular trajectories specifically in mouse embryogenesis

CAMPUS INVOLVEMENT

University of Texas at Austin Recsports

June 2023 – June 2024

Head Lifeguard

Austin, TX

- Collaborated with team of 10 head lifeguards to supervise aquatic facilities and resolved staffing issues, improving shift coverage
- Managed a team of 90 lifeguards, ensuring no incidents during shifts

Computer Science Transfer Society

February 2022 – May 2023

Founding Member

Austin, TX

- Organized workshops and events to integrate students into the Computer Science community
- Coached 20 prospective transfer students to succeed in the competitive University Internal Transfer application process

PROJECTS

CheapCheapTicket | *React, Flask, PostgreSQL, AWS*

June 2024 – Present

- Developing web app for users to find the cheapest tickets to hundreds of music events based on artist and location
- Implementing frontend with React and styled with Bootstrap; hosted on AWS
- Managing API requests with Postman and backend with Flask; database management with PostgreSQL

System Emulator | *C, ARM64*

November 2023 – December 2023

- Applied pipeline strategies to process limited ARM instruction set architecture
- Implemented a standalone trace-driven cache simulator, improving memory stage processing efficiency by 15%

Youmecar | *Flask, React*

October 2023 – November 2023

- Collaborated with a team to create a carpooling web app for large organizations
- Developed backend services and designed a database schema using Flask, and built the frontend with React

Laun | *React Native, Node.js, Twilio*

October 2022 – November 2022

- Worked with a group of 4 people to create a mobile app that helps students in dorms manage laundry/dryer loads
- Implemented a notification system using Twilio and implemented the frontend with React Native

TECHNICAL SKILLS

Languages: Java, Python, C, Javascript/JSX, Typescript/TSX, SQL

Frameworks: React, Node.js, Next.js, Tailwind CSS, Flask, Hadoop, Spark

Tools: Google Cloud Platform, AWS, Git/GitHub