

Yu-An Chen

470-424-0828 | euanchens5948@gmail.com | [linkedin.com/in/euanchen](https://www.linkedin.com/in/euanchen) | github.com/e019chen

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Atlanta, GA

Aug. 2025 – May 2027

Georgia Institute of Technology

Bachelor of Science in Computer Science, 3.75/4.00 GPA (Faculty Honors, Dean's List)

Atlanta, GA

Aug. 2022 – May 2025

WORK EXPERIENCE

Amazon

Software Development Engineer Intern

May 2025 – Nov. 2025

Taipei, Taiwan

- Build an interactive GIS dashboard in Amazon Redshift to monitor real-time IoT network coverage and diagnostics
- Migrate fragmented raster pipeline into a unified mapping tool to streamline client connectivity failure analysis
- Engineer backend systems to support device telemetry visualization and scalable geospatial queries across fleet

Big Data Mobile

Artificial Intelligence Engineer Intern

May 2024 – August 2024

Taipei, Taiwan

- Designed deep transfer learning model (97.2% recall) to detect lung diseases using Apple Watch electrocardiogram
- Performed ETL across 26 tables, expanding dataset from 12 to 44,483 patients to meet medical diagnosis standards
- Preprocessed waveforms using transformations, image processing, denoising, segmentation, and filtering algorithms
- Coordinated with IRB and hospitals for clinical data, addressing committee concerns with evidence-based response
- Mentored 30+ interns by providing onboarding materials, debugging errors, and conducting progress evaluations

Georgia Tech Study Abroad Programs

User Interface Engineer

Jul. 2023 – May 2025

Atlanta, GA

- Managed 110+ webpages with 100,000+ annual viewers for GT-Shenzhen and China Summer Program websites
- Implemented web features, updated promotions, and fixed bugs, ensuring alignment with designer specifications
- Achieved 102% enrollment increase through strategic marketing and weekly team reviews of UI/UX Figma designs

RESEARCH EXPERIENCE

Data-centric Machine Learning Lab

AI/ML Research Assistant

May 2025 – Present

Atlanta, GA

- Led 3-person team on feature engineering pipeline, including web scraping, object detection, and adaptive cropping
- Conducted EDA on object-to-background ratios and confidence scores to assess dataset quality and composition

Automated Algorithm Design Lab

AI/ML Research Assistant

Aug. 2023 – Dec. 2024

Atlanta, GA

- Developed evolutionary AutoML to discover efficient neural architectures for object detection and classification
- Analyzed generated computer vision models to identify optimal layer configurations and fine-tune hyperparameters

PROJECTS

Isolation AI Agent

Sep. 2024 – Oct. 2024

- Placed top 5 out of 240 in a Georgia Tech graduate AI course board game tournament as an undergraduate student
- Coded efficient adversarial game search algorithm optimized for limited time, memory and computational resource
- Applied game theory (minimax, alpha-beta pruning, caching, and custom heuristics) to optimize decision-making

Airline Management Database System

Aug. 2023 – Dec. 2023

- Implemented a MySQL relational database with real-world aviation data to manage complex airline operations
- Constructed enhanced entity relationship diagram, database schemas, views, and stored procedures to plan design

TECHNICAL SKILLS

Languages: Python, Java, SQL, HTML, CSS, JavaScript, TypeScript, C

Frameworks/Libraries: Pandas, NumPy, React.js, Next.js, Flask, Express.js, Keras, SciPy, OpenCV, wfdb, GeoPandas

Developer Tools: AWS, MySQL, MongoDB, PostgreSQL, Docker, Node.js, CUDA, cuDNN, WordPress, GCP, Excel, PyTorch, TensorFlow, Matplotlib, Plotly, SLURM, Postman, Amazon Redshift, Junit, os, Linux, Git

Leadership: Taiwanese Student Association (Public Relations), Chinese Student Association (Finance Board),

GT-Shenzhen/Hong Kong University/Tianjin University (Summer 2023), Georgia Tech Solar Racing (Strategy Division)