

Jasper Hsieh

✉ jhsieh36@gatech.edu ☎ 404-980-9897 📍 Atlanta, GA 30319 🌐 Japachey

🎓 EDUCATION

Georgia Institute of Technology, *Bachelor of Science in Computer Science* 12/2026
Specialize in Intelligence and People (GPA: 4.00)

University of Georgia, *Bachelor of Science in Computer Science & Mathematics*
Presidential Scholar (Spring & Fall 2024)

📁 EXPERIENCE

Automated Algorithm Design VIP (with Google), *Undergraduate Researcher* 08/2025 – Present

- Evolved EMADe's algorithm pipeline by implementing and testing 100+ hybrid algorithm variants in Python and C++, achieving ~20% improvement in multi-objective optimization metrics.
- Accelerated evaluation throughput by ~3x using GPU/CUDA on cloud clusters, reducing test time from hours per variant to under 20 minutes, enabling broader solution exploration.
- Enhanced reproducibility and collaboration by integrating EMADe into GitHub with CI pipelines, increasing contribution volume by 50+ commits across 5 collaborators and streamlining onboarding.

Union Material Co., Ltd., *Leader of Intern Team & International Sales Assistant* 07/2019 – Present

- Resolved a critical supply chain issue caused by the 2021 Suez Canal obstruction, securing alternative logistics reducing delays by 75% and ensured 100% on-time order fulfillment.
- Organized and participated in 5+ commercial exhibitions across the US and Italy, engaging with 20+ potential clients and expanding the company's global market presence.
- Coordinated logistics task forces to ensure smooth international shipments, overseeing vendor coordination, customs documentation, and transportation arrangements.

ROC (Taiwan) Armed Forces, *Corporal* 05/2022 – 10/2022

- Directed a tactical team of 5 in urban warfare drills, executing 15+ successful training missions to enhance combat readiness and strategic coordination in simulated battles.
- Managed supply logistics, ensuring 100% equipment availability, timely resource distribution, and operational efficiency in high-intensity training exercises.

📁 PROJECTS

UGAHacks9 DawgEats, *Winner of the Best AI Application* 02/2024

- Led a multidisciplinary team to win in UGA's 48-hour hackathon, securing the "Best AI Application" award among 400 competitors by developing a standout project.
- Employed Google Firebase for robust data management and Auth0 API for secure user authentication, ensuring a comprehensive and inclusive login system.
- Integrated advanced AI technologies using the Cloudflare Workers API and Llama-2 7b NLP model to parse and classify extensive dining data effectively.

Regents' Professor Arun Rai Collaboration, *AI Research Projects* 01/2022

- Researched how AI, data science, and IoT shape the future of work, focusing on machine learning and deep learning advancements.
- Analyzed strategies for undergraduates to prepare for careers in AI and data science, emphasizing machine learning model development and AI-driven decision-making.

Cinema E-booking Website, *Software Engineering Project* 09/2024

- Collaborated in a 5-member team using Agile Scrum methodology with 2-week sprints, leading to on-time delivery of a production-ready full-stack web application.
- Developed and integrated RESTful APIs with authentication and role-based authorization using Auth0 to ensure secure user access and session management.
- Deployed application on AWS and implemented CI/CD pipelines with GitHub Actions, improving deployment efficiency and reliability.

🧠 SKILLS & INTERESTS

Technical Skills — Java, JavaScript, Python, HTML/CSS, C/C++, SQL, MySQL, React, Node.js, Figma, Flask, Assembly, Docker, Auth0 (OAuth 2.0, JWT), AWS (EC2, S3, Lambda), GCP, PyTorch, NumPy, Unix, Emacs, CI/CD, Git/Github

Course Concepts — Data Structures & Algorithms, Intro to Artificial Intelligence, Software Development, Machine Learning, Automata & Complexity Theory, Info Visualization, Object & Design, Computer Organization & Program

Language — English, Taiwanese, Mandarin, Japanese