HENRY JIANG

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Education

Georgia Institute of Technology   *Atlanta, GA*
- B.S. in Computer Science | Concentrations: Computational Media, AI   *Dec 2026 (Expected Grad)*
- GPA: 3.67 | HKN Scholar

Skills

Languages: Python, Java, JavaScript, C, C#, C++, HTML, CSS, R
Certifications: CompTIA ITF+, CompTIA Security+
Technologies: JUnit, Jira, Docker, Firebase, Tensorflow, Pytorch, OpenCV, Pandas, Blender, Splunk, Node.js, Android Studio

Experience

GT Fung Research Group   *Aug 2023 – Apr 2025*
Undergraduate Research Assistant   *Atlanta, GA*
- Contributed to 2 graph neural network packages for atomic structure prediction predicting with over 90% accuracy
- Made breakthroughs in bottleneck of prediction with unknown lattice parameters, achieving 50% match rate with particle swarm optimization with PyTorch, ASE, and Pyswarms
- Processed 500+ crystal structures and discovered new ground truth configurations to advance materials discovery

NASA   *Jun 2024 – Aug 2024*
Systems Security Intern   *Kennedy Space Center, FL*
- Enhanced critical Launch Control Center threat detection by designing 4 Splunk dashboards for real-time log monitoring
- Strengthened cybersecurity compliance by completing SSP and SCP revisions for 3 NE-XC sectors, analyzing NIST/FISMA requirements and drafting 20+ PO&AMs for vulnerabilities
- Enabled branch's ahead-of-schedule security audit completion, delivering compliant documentation 3 months early

Inchtone Global   *May 2023 - Aug 2023*
Backend Software Engineering Intern   *Remote*
- Built end-to-end CRM integration pipeline syncing 1,000+ Apollo.io leads weekly to Bitrix24 via REST APIs and webhooks
- Developed Selenium-based web scraping infrastructure processing and validating 10,000+ data points weekly
- Led code reviews and sprint planning for 3-person intern team, increasing productivity by 30% and delivering 5+ milestones ahead of schedule

Projects

DARWIN: Agentic Evolutionary GPT | OpenAI API, LLMs, Genetic Algorithms | *Github*   *Oct 2025*
- Evolutionary AI system where GPT agents iteratively modify, test, and optimize their training code, achieving 20% improvement in MFU and perplexity benchmarks
- Includes autonomous debugging, memory file storage, and chat interface for upgrade requests from agents (datasets, packages, scripts)

Stock Market Bubble/Crash Forecast AI | Pandas, Rest APIs | *Github*   *Sep 2025*
- Accurately predicted medium crash risk before 800-point fall on Oct 10, 2025 and subsequent market corrections
- Achieved 91% accuracy with random forest models trained on 20 years of market data and 10,000+ news article sentiment scores using Pandas, Tiingo, and Yfinance

Automated Intersection Management for Self-Driving Cars | Raspberry Pi, OpenCV, YOLOv3 | Github   *Apr 2023*
- Improved traffic efficiency by 40% with reinforcement learning system trained across 10,000+ episodes
- Designed self-driving car with Raspberry Pi, YOLOv3, and OpenCV, reactively responding to system's virtual object hitboxes and sharing ultrasound data