

# HENRY JIANG

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## Education

### Georgia Institute of Technology

Atlanta, GA

- B.S. in Computer Science | Concentrations: Computational Media, AI
- GPA: 3.67 | HKN Scholar

Dec 2026 (Expected Grad)

## 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 – Present

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, Tiingo, Yfinance | [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