HENRY JIANG

Atlanta, GA • (850) 381-7030 • henryyjiang42@gmail.com
hjiangportfolio.com • linkedin.com/in/henryyjiang • github.com/henryyjiang

Education

Bachelor of Science in Computer Science – Georgia Institute of Technology
Graduate: Dec 2026 | GPA: 3.7 | Concentrations: Computational Media, AI | Minors: Fintech, Computation & Cognition

Skills

Languages: Python, Java, JavaScript, C, C#, C++, HTML/CSS, R, Fortran
Certifications: CompTIA ITF+, CompTIA Security+
Technologies: JUnit, JIRA, Docker, Firebase, Tensorflow, Pytorch, OpenCV, Pandas, Matplot, Selenium, Unity, Blender, Splunk, Node.js, REST APIs

Experience

Information System Security Officer (ISSO) Hybrid Intern | *NASA Kennedy Space Center — Exploration Ground Systems (NE-XC) | Jun 2024 – Aug 2024 | Titusville, FL*
- Completed Systems Security Plan (SSP) and Security Controls Plan(SCP) revisions for 3 sectors of NE-XC, ensuring compliance with NIST/FISMA standards and drafting PO&AMs.
- Contributions directly led to the NE-XC branch's ahead-of-schedule security audit completion.
- Designed and implemented Splunk dashboards for real-time security data analysis of Launch Control Center (LCC).

Undergraduate Research Assistant | *Georgia Tech — Fung Research Group | May 2023 – Present*
- Contributed to the development of atomic structure prediction and reconstruction graph neural network(GNN) models for lab packages MatDeepLearn and MatStructPredict.
- Coded optimizer with Pytorch, ASE, Pyswarms, and Mattersim with promising 40% match rate using particle swarm for lattice parameter calculations.

Backend Software Development Intern | *Inchtone Global LLC | May 2023 - Aug 2-23 | Remote*
- Led intern team, aiding in code reviews and coordinating team deliverables.
- Independently structured Apollo.io to Bitrix24 backend CRM system with webhooks and REST APIs and developed web scraping pipelines for databases using Python, Selenium, and regex.

Projects

Stock Market Bubble/Crash Forecast AI | *https://github.com/henryyjiang/bubble_predictor*
- TIDE and Random Forest models predict bubbles with 76% and 91% accuracy respectively. Predict a medium risk of bubble/crash as of mid-September 2025. Predictions were validated after an 800 point drawdown on October 10th.
- Also capable of predicting weekly change in sector ETFs and major indices, and can predict weekly VIX and volatility.
- Scraped unique combination of sector ETF and news headline sentiment scores to create my training datasets.

DARWIN: Agentic Evolving GPT | *https://github.com/henryyjiang/DARWIN#*
- Applies genetic algorithms to GPT models prompted to modify and improve their own training code. Serves as a proof-of-concept for a Darwin-Godel model, resolving errors and rewriting code agentically.
- The live chat window feature allows the GPT to request for dataset/library upgrades, additional scripts, and structural changes. Currently still a work in progress, performance metrics still being collected.

Meal Max – AI-Powered Satiety Nutrition Tracker
HackGT Hackalytics Feb 2024 | Team Project | https://github.com/henryyjiang/satietytracker
- Real-time meal tracker with a TensorFlow neural network food datasets to predict satiety scores within 75% accuracy and integrated OCR-based image detection for automated nutrition label scanning.
- I built the Tkinter-based front end, integrating the OCR scanner and the automatically updating database for predicted satiety scores.

Full-Stack Travel Planner Android App
CS 2340 Semester Project Jan-May 2025 | Team Project | https://github.com/henryyjiang/travelplannerapp
- Built a full-stack Android travel planning app with Android Studio, Java and Firebase (Authentication, Realtime Database) supporting user accounts.
- Focused on Junit tests, SOLID and GRASP principles, AGILE through JIRA, and solid Git and UI fundamentals.
- Features itinerary tracking for flights, hotels, and reservations, data visualization, and forum posting.