

Shu Wang

(402)525-6426 • swang3130@gatech.edu • LinkedIn • GitHub

EDUCATION

Georgia Institute of Technology

Aug 2024 – Current

Master of Science in Computer Science GPA: 3.66

Relevant coursework: Computer Networks, Operating Systems, Machine Learning

EXPERIENCE

Georgetown University

Washington, DC

Data Analyst

Jul 2023 – Current

- Designed automated data-processing workflows in Python/R that reduced manual QC and analysis time for internal and external collaborators.
- Built and maintained machine-learning pipelines for biomarker prediction and statistical modeling.

Techtonica

Software Engineer in Training

Sep 2025 – Current

- Intensive training for full-stack development, with a focus on JavaScript and React. [\(FUTURE: link\)](#)

PROJECTS

1. Job Offer Comparison App – Java, Android Studio (Course project) [\[DEMO\]](#)

Sep 2025

An Android App for tracking current job details, managing offers, and generated weighted comparison.

- Implemented 100% of UI layer using XML with form inputs, list views, and comparison result screens.
- Connected UI inputs with model classes, transforming user-entered job attributes into typed objects.
- Acted as informal team lead, coordinating feature timelines, aligning UI/logic integration, and contributing to unit test and end-to-end testing across a 3-member team.

2. Peach Tree Saving Club – Python, SQL, Flask, EER design (Course project) [\[DEMO\]](#)

Oct 2025

A full-stack web application with a relational database for managing store sales data.

- Co-designed system architecture and relational data model (EER + schema) in a 4-member team.
- Set up Flask project structure (configuration, templates, DB utilities).
- Implemented two end-to-end reporting modules: SQL joins/aggregation + Flask routes + HTML rendering.

3. Plasma EV biomarker discovery in Pancreatic Cancer – R, machine learning (Georgetown project)

A collaborative research study investigating metabolites by ML-based biomarker discovery for early cancer detection.

- Applied ML workflows to identify early-stage biomarkers from plasma EV metabolomics data.
- Built reproducible pipelines for preprocessing, normalization, batch correction, and feature engineering.
- Led core data analysis and contributed to study design; work presented at AACR 2024 (poster). [\[link\]](#)

SKILLS

- **Languages:** Python, Java, SQL, JavaScript, TypeScript, HTML/CSS, R
- **Frameworks:** Node.js, Flask, React
- **Libraries:** PyTorch, NumPy, Scikit-learn, Pandas
- **Dev Tools:** Git, CI/CD, Jupyter, HPC
- **Systems & Concepts:** Multithreading, Socket Programming, IPC, Distributed System