Hannah Clay

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EDUCATION

Stanford University   **Stanford, CA**

Bachelor of Science, Computer Science (Biomedical Computation Track) | GPA 3.9   *June 2025*
Master of Science, Computer Science (Artificial Intelligence Track)   *June 2026*

Coursework: Programming Abstractions, Computer Systems from the Ground Up, Operating Systems Principles, Mining Massive Datasets, Artificial Intelligence: Principles and Techniques, Intro to Computational Genomics

Columbus Academy   **Gahanna, OH**

GPA: 4.13 Unweighted, 4.42 Weighted   *June 2021*
Cum Laude (2020, 2021)
National AP Scholar (2020)
National Chinese Honor Society (2020)

EXPERIENCE

Bioinformatics Institute, A*STAR   **Singapore**

SIPGA Internship Awardee   *June 2024-Present*
- Developed a Next.js web application from the ground up, integrating a tissue segmentation AI model with a custom visualization tool.
- Integrated the application with AWS services, including Amplify, DynamoDB, S3, and SageMaker, to manage hosting, the ML pipeline, and backend database operations.

Black LaIR   **Stanford University**

Tutor   *January 2023-Present*
- Assist students with introductory CS coursework including assignments and conceptual understanding.

Dropbox   **Remote**

Software Engineer Intern   *June-September 2023*
- Implemented a full-stack development project for Dropbox Enterprise, enhancing functionality by implementing bulk actions using TypeScript, React, and Python for the backend.
- Contributed to the redesign and migration of Dropbox Enterprise Members page collaborating closely with the Design team and product manager.

Code in Place   **Stanford, CA**

Curriculum Designer   *January-June 2023*
- Co-authored an online course reader for Stanford's global, virtual computer science class from scratch, creating original and engaging content and examples to illustrate key concepts for students worldwide.

OXOS Medical   **Atlanta, GA**

Software Engineer Intern   *June-August 2022*
- Developed multiple computer vision models for an X-ray device using Python and TensorFlow, including key point detection and image segmentation models.
- Managed the entire machine learning pipeline, from data collection and annotation to preprocessing, model construction, and research.
- Conducted extensive hyperparameter tuning to optimize model performance and ensure accurate results.

PROJECTS

BattleDart   **C, Raspberry Pi**
- Developed integrated hardware and software project on Raspberry Pi constructing an 8x8 grid of magnetic sensors and connecting it to a custom-programmed computer-displayed game of battleship.

SKILLS

- **Programming Languages**: Java, JavaScript, C, C++, Python, TensorFlow, TypeScript
- **Tools:** React.js, AWS, Next.js, Node.js, MySQL, Git
- **Languages:** English (native), Mandarin Chinese (intermediate)