

Hexin Jiang

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EDUCATION

Haverford College | Expected Graduation May 2026

B.S. in Computer Science

Haverford, PA

GPA 3.95/4.00

Relevant coursework: Operating Systems, Analysis of Algorithms, Principle of Computing Systems, Data Structures, Discrete Mathematics, Linear Algebra, Calculus

WORK EXPERIENCE

Software Developer Intern | Python, Flask, PostgreSQL, RESTful API, Pytest

FINRA (Financial Industry Regulatory Authority)

Philadelphia, PA

May 2024 - Present

- Developed and designed a RESTful API for the Firm Examination Management web application using Flask, resulting in a 20% increase in examiner productivity
- Integrated the API with PostgreSQL database using SQLAlchemy and performed upgrades to database query strategies, improving data request speed by 50%
- Upgraded database schemas and validation frameworks using Marshmallow for user input validation, lowering API errors by 30% and allowing the UI to be more responsive and intuitive
- Programmed robust automated test scripts with Pytest, achieving a 10% increase in QA efficiency and cutting manual testing hours by 50%

AI Model Development Intern | Python, PyTorch, TensorFlow, YOLO

IntelliFusion Technologies

ShenZhen, China

May 2023 - Aug 2023

- Engineered advanced object detection models on pretrained YOLO models, achieving 80% accuracy and reduced manual monitoring time by 40%
- Optimized models using PyTorch and TensorFlow, improved accuracy by 20% and lowered false positives by 30% on average
- Integrated pretrained image segmentation models (SAM, FastSAM) to projects and increased precision of detected objects by 30%
- Drove cross-team collaboration with Data Collection and Labeling teams for high quality training data

PERSONAL PROJECTS

Checkers | <https://github.com/HexinJ/Checkers>

Haverford College

Haverford, PA

Oct 2023 – Nov 2023

- Architected and developed a digital Checkers game from the ground up, ensuring robust functionality and optimal performance
- Leveraged Greenfoot to construct a highly responsive and user-centric interface, ensuring compatibility across various devices.
- Programmed and embedded all game rules and win conditions to deliver a seamless and competitive 2-player experience

Quarto | <https://github.com/HexinJ/Quarto>

Haverford College

Haverford, PA

Apr 2023 – May 2023

- Engineered a custom AI player for Quarto and embedded the project on the school website, increased site traffic by 10% and highlighted innovative student projects to a wider audience
- Assisted students in constructing their own AI players, providing technical guidance and support during class sessions
- Coordinated a tournament featuring AI players developed by students, fostering a competitive and collaborative learning environment

TECHNICAL SKILLS

Proficient in Python, C/C++, SQL, Flask, Git, Bitbucket, RESTful APIs, Jira, Jenkins, Visual Studio

Experienced with Java, TypeScript, TensorFlow, Postman, Pytest, AI/ML Model Development, SDLC, Linux, MacOS, Bash, OOP, Data Structures, Algorithms