

# Hexin Jiang

Haverford, PA | 609-302-1917 | bjiang@haverford.edu | www.hexinjiang.me

## EDUCATION

---

**Haverford College** | Expected Graduation May 2025  
B.S. in Computer Science

Haverford, PA  
GPA 3.95/4.00

**Relevant coursework:** Distributed Systems, Computer Networking, Operating Systems, Analysis of Algorithms, Data Structures, Discrete Mathematics, Linear Algebra

## WORK EXPERIENCE

---

### Software Developer Intern @ Finra

May 2024 - Aug 2024

- 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 @ IntelliFusion Technologies

May 2023 - Aug 2023

- Engineered advanced object detection models on pretrained YOLO models in Docker containers, 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

## PROJECTS AND CAMPUS INVOLVEMENT

---

### PennMail and PennDrive | C++, HTML, JavaScript, FullStack

Oct 2024 - Dec 2024

- Developed a small version of Gmail and Google Drive that allows users to write emails, view their inbox, upload files up to 10MB, rename/move/download files, and create nested folders
- Designed an interactive, responsive web interface using HTML and JavaScript for users to manage their emails and files
- Implemented a frontend server in C++ to handle fetch requests (GET, POST, DELETE) from the web interface and communicate with backend servers to retrieve/store data
- Collaborated with a team of four using iterative development and testing methodologies

### Co-head: S-Chords | College Acapella

Aug 2024 – Present

- Nominated to be Co-head after being a member for two years
- Booked rehearsal rooms, coordinated performances, and assisted members with music

### Checkers | Java, Game Design, UI/UX

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 game rules to deliver a seamless and competitive 2-player experience

### Member: Havercode | Haverford CS Club

Aug 2022 – Present

- Involved in group activities including Hackathons, tech talks, and codefests

## SKILLS

---

**Proficient in** Python, C/C++, Javascript, SQL, Flask, Git, Bitbucket, Linux, RESTful APIs, Web Dev

**Experienced with** Java, TypeScript, TensorFlow, Postman, Docker, Pytest, AI/ML Model Development

**Languages:** English (proficient), Mandarin (proficient), Spanish (intermediate)