

# KY CHUONG NGUYEN

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## EDUCATION

### DePauw University, Greencastle, IN

*Expected Graduation May 2025*

*Bachelor of Arts, Major: Computer Science (GPA: 4.0/4.0), Economics (GPA: 3.83/4.00), Overall GPA: 3.91/4.00*

- **Relevant Courses:** Data Structures, Computer Systems, Object-Oriented Software Development, Foundations of Computing, Statistics for Management, Database.

### University of Oxford, Oxford, United Kingdom

*Jan 2024 – Jun 2024*

- The Oxford Programme for Undergraduate Studies in Machine Learning and Deep Reinforcement Learning.

### Honors Programs:

- **Management Fellows:** Program integrating the study of management and entrepreneurship with the Liberal Arts; includes classes in economics, accounting, ethics, statistics, and lectures by successful business leaders.
- **Information Technology Associate Program:** A program providing internship-quality opportunities and experiences of working in selected on-campus jobs and projects involving technology.

## WORK EXPERIENCE

### Stanford University - CS329H: Machine Learning from Human Preferences

*Jun 2024 – Aug 2024*

#### Teaching Assistant Collaborator, Remote

- Revised the course textbook, focusing on Reinforcement Learning from Human Feedback chapter.
- Prepared lecture slides of Reinforcement Learning from Human Feedback for the AY 2025.
- Drafted a proposal to Human-Centered Artificial Intelligence \$75,000 Seed Grant 2024 funding for the textbook.

### AxiomHealth.ai - Software Engineering Intern, Remote

*Aug 2023 – Dec 2023*

- Developed a support portal in **React** with Ant Design, featuring interactive components and predictive search.
- Enhanced portal aesthetics and functionality using **SCSS** for a consistent product design, such as font, color palette.
- Designed a Python program applying regular expressions to clean **5 million** inconsistent company names in database.

### AxiomHealth.ai Summer Technical Intern, Remote

*Jun 2023 – Aug 2023*

- Created a **Tableau** data dashboard to give immediate access to key metrics and insights into the MedTech market.
- Coded a **Python** program to structure **70,000** procedure codes from a 2000-page guidebook for definition retrieval.
- Tested website performance by focusing on filter functionalities to improve response speed under 5 seconds.

### DePauw Student Accessibility Services Technology Assistant, Greencastle, IN

*Sep 2021 – Present*

- Helped more than **300** students with learning difficulties by installing and training them to use assistive technology.
- Assisted office in preparation for final exams by sending reminder emails, arranging dates and seats for candidates.
- Scanned, edited, and uploaded more than **500** articles and books in accessible format into assistive software.

## PROGRAMMING PROJECTS

### Reinforcement Learning with OpenAI Gym

*Jan 2024 - Mar 2024*

- Explored Reinforcement Learning by building policies for environments in OpenAI Gym.
- Implemented Temporal Difference and Monte Carlo methods to stimulate FrozenLake and Taxi tasks.
- Analyzed and adapted learning rates, discount factors, and exploration strategies to enhance the agent's performance.

### MusicHeal Website

*Apr 2022 – May 2022*

- **3<sup>rd</sup>** Prize Winner of the Hack the Mind programming contest, a global competition to improve the mental health crisis.
- Built a website in HTML, CSS, JavaScript to provide Autonomous Sensory Meridian Response (ASMR) sounds.
- Developed a login page, navbar, and an auto-changing background to enhance user interaction and visual appeal.

### Personal Portfolio Website (link: <https://kycnguyen.github.io/MyPortfolio/>)

*Mar 2022*

- Using HTML, CSS, and JavaScript to build a website showcasing projects, experience, and contact information.
- Integrated downloadable resume and external links to GitHub and LinkedIn for professional networking.

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, HTML, CSS, JavaScript, Latex
- **Frameworks and Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenAI Gym
- **Tools:** Jupyter Notebook, Git, JIRA, Tableau, Overleaf