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 – August 2024
Teaching Assistant Collaborator, Remote
- Edited and revised the course textbook, focusing on Reinforcement Learning from Human Feedback chapter.
- Preparing lecture slides of Reinforcement Learning from Human Feedback for the AY 2025.
- Contribute to the Human-Centered Artificial Intelligence Seed Grant 2024 funding proposal.

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 better user experience.
- Tested AxiomHealth website performance by focusing on filter and functionalities to ensure speed and accuracy.

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.
- Designed a **Python** program to structure **70000** procedure codes from a 2000-page guidebook for definition retrieval.
- Coded a **Python** program applying regular expressions to clean **5 million** inconsistent company names in database.

DePauw Student Accessibility Services Technology Assistant, Greencastle, IN   Sep 2021 – May 2023
- Helped more than **200** 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   Mar 2024
- Explored Reinforcement Learning by building policies for environments in OpenAI Gym.
- Implemented Temporal Difference and Monte Carlo methods to solve FrozenLake and Taxi simulation tasks.
- Analyzed and adapted learning rates, discount factors, and exploration strategies to enhance the agent's performance.

AdaBoost Face Detection Model Development (link: AdaBoost_Face_Detection.ipynb)   Mar 2024
- Crafted a face detection model using adaptive boosting techniques with precision-tuned feature analysis.
- Enhanced detection capabilities via iterative training cycles, fine-tuning for optimal accuracy.
- Validated algorithm effectiveness through comprehensive testing, targeting deployment readiness.

MusicHeal Website   Apr – May 2022
- **3rd** Prize Winner of the Hack the Mind contest, a global mental health programming competition.
- Built a website architected in HTML, CSS, JavaScript to provide Autonomous Sensory Meridian Response sounds.

TECHNICAL SKILLS
- **Programming Languages:** Java, Python, C++, HTML5, CSS3, JavaScript, Latex
- **Frameworks and Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenAI Gym
- **Tools:** Jupyter Notebook, Git, JIRA, Tableau, Overleaf