

Tam Huynh

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EDUCATION

Nanyang Technological University

Electrical and Electronics Engineering

Singapore

EXPERIENCE

Founder, Project Manager, and Fullstack Developer

Feb. 2023 – Present

Intellectual Showdown | Website

Vietnam

- Led a 20-member team to develop 10+ technological solutions addressing key challenges faced by Vietnamese students, supporting The Gifted Battlefield's initiatives, which engaged over 50,000 students annually.
- Developing an open-source competition hosting platform supporting thousands of students globally, improving accessibility by 40%.
- Built a robust database infrastructure (MariaDB, Mikro ORM) and developed scalable BackEnd (NestJs, RabbitMQ, Redis) and FrontEnd (NextJs, Storybook) systems, enhancing response times by 25%.

Software/AI Engineer Intern

May 2024 – Jul 2024

Rockship | Website

Ho Chi Minh City, Vietnam

- Implemented a JD auto-filling mechanism and debugged AI API integration for the CV Judgement System, increasing data processing speed by 30%.
- Built and integrated a CV Parsing System with Masking and Generation features using LlamaIndex, FastAPI, and PostgresDB, leading to 50% faster parsing.
- Developed a compatibility calculator, smart search engine, and JD Parsing API, boosting tool efficiency by 20%.

Website Developer Intern

April 2024 – Sept. 2024

CYOBot | Website

Remote - Based in New York City

- Collaborated with a team of 5 to develop dynamic and reusable React.js components using Next.js, enhancing platform performance by 15%.
- Integrated APIs and worked closely with backend developers, leading to a 25% reduction in response latency.
- Carried out code reviews and implemented feedback, maintaining 98% code quality compliance.

Computer Vision Developer

July 2023 – Dec. 2023

Fico-YTL | Website

Ho Chi Minh City, Vietnam

- Developed a management system for production lines across 10+ stations, integrating license plate detection with 95% accuracy using Python, Django, YOLOv8, and EasyOCR.
- Collaborated with cross-functional teams to ensure seamless system integration, resulting in a 20% reduction in manual oversight.
- Deployed and maintained computer vision models with over 99% uptime, ensuring high reliability.

RESEARCH EXPERIENCE AND PROJECTS

Autonomous Drone 3D Reconstruction Project | AI Developer/Tech Lead

Feb. 2024 – Present

- Leading 3D team to develop a reconstruction pipeline from drone-captured images, achieving detailed 3D models.
- Designing models for camera pose and depth estimation, enabling accurate 3D reconstruction.
- Integrating models for real-time processing, producing photorealistic simulations.

Automated Grading System Model | CV/LLM Developer

Sept. 2024 – Present

- Developing a system for assessing student submissions using OCR and LLMs, automating evaluation.
- Implemented content extraction via segmentation, enhancing analysis coverage.

Climbing Robots For Inspection of Storage Tanks | Research Assistant

Aug. 2022 – Aug. 2023

- Programmed robot movements and managed data, improving inspection efficiency.
- Researched magnetism and mechanics for design optimization.

English-Vietnamese Machine Translation of ChatGPT | Lead Author

Aug. 2022 – Aug. 2023

- Analyzed ChatGPT's translation capabilities, showing progress in English-Vietnamese translations.
- Evaluated using COMET and BLEU scores, providing performance insights.

AI and Big Data in Cybersecurity | ML/Fullstack Developer

Feb. 2023 – Present

- Built a news categorization site for cybersecurity updates using ML and web scraping, enhancing information access.
- Used Django and MongoDB for development and storage, ensuring reliable data management.
- Implemented text summarization with TensorFlow, delivering concise content.

HONORS AND AWARDS

The ICPC Vietnam National Programming Contest (High School Board - National Round)

2023

Finalist of Central Highlands and Viet Nam Informatics Olympiad

2024

Honorary - Uber Global Hackathon 2022/2023 (Software Development and Data Analysis)

2022/2023

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Java, MATLAB

Frameworks and Libraries: PyTorch, Tensorflow, LangChain, LlamaIndex, Django, Flask, WordPress, FastAPI, Nextjs, Reactjs, Threejs, Pandas, NumPy, Matplotlib, Sklearn

Developer Tools: Git, Github, Google Colab, VS Code, Visual Studio, PyCharm, NeoVim, Ubuntu, WSL, LaTeX