Barry Tran

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EDUCATION

University of Adelaide <div align="right">Adelaide, SA</div>
Bachelor of Computer Science (Advanced), GPA: 7.0/7.0 <div align="right">*July 2023 – Nov. 2025 (Expected)*</div>

EXPERIENCE

Research Intern <div align="right">Nov. 2023 – Present</div>
Australian Institute for Machine Learning
- Led the advancement of an innovative AI model in the research project titled *"Exploring X-ray Velocimetry (XV) Imaging and Machine Learning for the Detection and Monitoring of Cystic Fibrosis Disease in preclinical Data."* The developed model demonstrated an impressive 89% accuracy in its results.
- Utilized Matplotlib, NumPy, and Scikit-learn for data visualization and integration of innovative AI solutions
- Employed 7 classifiers and ensemble models, alongside dimension reduction and features extraction techniques

Fullstack Developer <div align="right">Oct. 2023 – Present</div>
Budi Startup
- Developed a responsive and functional landing page leveraging technologies like AstroJS, React, and Tailwind
- Completed project in 4 days, demonstrating expertise in efficient development practices
- Expanded the customer base by 20%, contributing to the overall growth and impact of the startup's online presence

PROJECTS

Event Management Web App | *Django, REST Framework, React, TailwindCSS* <div align="right">Oct. 2022 – Feb. 2023</div>
- Implemented efficient event management, using Django as backend with Django REST framework
- Integrated QR code scanning and automated ticket generation for efficient event check-ins
- Utilized React and TailwindCSS for the frontend, employing Webpack and Babel to compile for production

Doodle Duo Game | *C++, SFML, Git, Catch2* <div align="right">Sep. 2023 – Oct. 2023</div>
- Collaborated in a team of 2 to conceptualize, design, and develop a captivating 2D platformer game
- Executed flawless coding in C++ and SFML, ensuring smooth player interactions and captivating gameplay
- Achieved a perfect 100% final mark, highlighting precision in coding and effective teamwork

Obesity Rate Analysis | *BeautifulSoup, Pandas, Numpy, Matplotlib, Multithreading* <div align="right">Aug. 2023 – Sep. 2023</div>
- Explored correlations between fast-food stores, gyms and average obesity rates across 28,000 U.S. cities
- Used BeautifulSoup & Multithreading to collect data on fast-food stores and gyms for a detailed dataset
- Analyzed with Numpy and Matplotlib, improving understanding of environmental factors in obesity prevalence

Soccer Games Discord Bot | *Discord API, Flask, Requests-HTML* <div align="right">Sep. 2021 – Jan. 2022</div>
- Developed a Soccer Discord Bot featuring engaging games like "Missing 11", "Guess the Players", etc.
- Crawled data from Transfermarkt using requests-html, ensuring real-time and accurate soccer information
- Attracted 80 new members to the local Discord server, fostering community connection

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, Assembly, Dart
Frameworks: React, AstroJS, NextJS, Django, Flask, Flutter, TailwindCSS
Developer Tools: Git, Docker, Google Cloud Platform, Jupyter Notebook, Linux

COMMUNITY INVOLVEMENT

Second Year Representative | *Adelaide University Mathematics Society* <div align="right">Oct. 2023 – Present</div>
Events Officer | *Adelaide MedTech Hackathon* <div align="right">Oct. 2023 – Present</div>
Ingenuity Event Volunteer | *University of Adelaide* <div align="right">Oct. 2023</div>

HONORS AND AWARDS

Third Prize | *Vietnam Mathematical Olympiad* <div align="right">Mar. 2023</div>
Meritorious Prize | *International Mathematical Modeling Challenge* <div align="right">May 2022</div>