Minh Triet Pham

Melbourne, VIC | minhtrietmt3@gmail.com | linkedin/in/minhtrietp | github/minhtrietcancode | minhtrietp.portfolio

Education

The University of Melbourne — Melbourne, Australia
Bachelor of Science in Data Science, WAM: 83.286/100 — *Expected Nov. 2026*

- **Coursework** (**current*): Foundations of Computing (93/100), Data Structures and Algorithms, *Object - Oriented Programming, *Elements of Data Processing, Databases

Experience

Python Programming Instruction — Mar. 2025 – Jun. 2025
Python Programming Instructor — *Remote*

- Designed comprehensive Python curriculum for a group of 5 secondary students covering data types and core programming concepts
- Guided students through 2 algorithm-based projects using problem-solving methodologies and coding challenges
- Introduced Python applications in data science, connecting theoretical concepts with industry practices
- Achieved 100% project completion rate through personalized mentoring and structured learning sessions

FutureTrack — Jan. 2025 – Apr. 2025
Data Analyst & Front-End Developer — *Melbourne, Australia*

- Predicted market size trends with 90% accuracy by implementing machine learning models using Scikit-learn
- Scraped 150+ websites for information on 40+ academic majors by utilizing BeautifulSoup
- Built responsive career guidance website serving 200+ students by developing with HTML/CSS/JavaScript
- Created comprehensive visualizations for 40+ majors by designing data-driven graphics with Matplotlib

Private Mathematics Tutor — Mar. 2022 – Nov. 2024
Independent Tutor — *Melbourne, Australia & Hanoi, Vietnam*

- Provided personalized mathematics instruction to students across multiple academic levels for 2 years
- Developed customized lesson plans and problem-solving strategies to address individual student learning needs
- Improved student academic performance by 50% through clear explanations of complex mathematical concepts

Quy Chan Joint Stock Company — Nov. 2024 – Feb. 2025
AI Trainee Intern — *Hanoi, Vietnam*

- Improved model prediction accuracy by 7% by cleaning and processing 5,000+ large-scale datasets using Pandas
- Reduced data preparation time by 15% by optimizing preprocessing workflows with NumPy and Pandas
- Enhanced decision-making effectiveness by 12% by developing predictive models using Scikit-learn
- Increased data quality score by 20% by conducting web scraping and JSON data transformation

Projects

Australian Accident Investigation | Link | *Python, Pandas, Matplotlib, Scikit-learn, Seaborn, NLTK*

- Structured and cleaned 500,000+ accident records achieving 95% data integrity using Pandas and regex
- Built predictive risk models identifying 3 critical accident factors using Scikit-learn correlation analysis
- Generated comprehensive reports with data visualizations using Seaborn and Matplotlib for safety recommendations
- Analyzed text patterns in accident descriptions using NLTK BoW analysis to identify high-risk scenarios

Aircraft Boarding Optimization | Link | *Python, NumPy, Matplotlib*

- Developed simulation models processing 10,000+ boarding scenarios with 1-minute accuracy using Python
- Optimized aircraft turnaround algorithms reducing boarding time by 15% through mathematical modeling
- Created actionable business insights from 5,000+ data points using NumPy and Matplotlib visualizations

Honors & Awards

Melbourne International Undergraduate Scholarship | The University of Melbourne — May 2023
Meritorious Prize | International Mathematical Modeling Challenge — Jul. 2022
High Distinction | Australian Intermediate Mathematics Olympiad — Sep. 2021

Technical Skills

Languages: Python, Java, C/C++, R, SQL (MySQL), HTML/CSS/Javascript, LATEX, Matlab
Developer Tools: Git (GitHub/GitLab), VS Code, Visual Studio, PyCharm, IntelliJ, Jupyter Notebook
Libraries: Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, NLTK, BeautifulSoup