Anthony Chen Zhichao

Aspiring Software Engineer | Machine Learning Engineer | Full-Stack Developer

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Contact

iamantt96@gmail.com
Portfolio: **https://anthonyczc.com/**

Education

Bachelor of Computer Science (Big Data)
University of Wollongong
Graduated in September 2024

Diploma in Business Informatics
Nanyang Polytechnic
Graduated in April 2020

Certification

TikTok – Tech Immersion Program
Obtained in July 2024

Key Skills

Portfolio: https://anthonyczc.com/
GitHub: https://github.com/antczc

Programming Languages

- C++
- C#
- Java
- Python
- R

Web Technologies

- HTML
- CSS
- Javascript
- Typescript
- React.JS

Big Data Technologies

- Hadoop
- Hive
- Spark

A recent graduate from the University of Wollongong, I am a **proactive** and **detail-oriented** individual with a **strong analytical mindset**, **eager to excel** in the tech industry. I have experience developing scalable web applications and contributing to the full software development lifecycle, from concept to deployment. My **problem-solving skills** and **adaptability** enabled me to thrive in **collaborative team environments**, which I **genuinely enjoy**. With a solid foundation in both front-end and back-end development, as well as machine learning, I am driven to apply technology innovatively to deliver practical solutions.

Experience

FEBRUARY 2021 – FEBRUARY 2023
Section Commander (Provost Unit) | **Singapore Civil Defense Force**

- **Team Leadership:** Led a team of 16 NSF personnel, ensuring smooth day-to-day operations.
- **Drug Testing & Enforcement:** Conducted routine urine tests on SCDF personnel for potential drug abuse, collaborating with the Central Narcotics Bureau (CNB) on handling drug abusers.
- **Data Analysis & Reporting:** Analyzed and reported statistical data on urine test fulfilment rates, achieving 95% to 98% compliance across various quarters.
- **Event Representation:** Represented SCDF at official events, welcoming the Commissioner, senior management, ministers, and VIPs.

JANUARY 2020 – MARCH 2020
Technical Support Engineer (Intern) | **NEC Asia Pacific Pte Ltd**

- **Project Contribution & Technical Support:** Contributed to the development and support of ICA Singapore's border immigration biometric verification system, ensuring smooth integration and functionality.
- **Troubleshooting & issue Resolution:** Diagnosed and resolved technical faults, network issues, and other technical challenges, ensuring minimal downtime and optimal system performance.
- **Software Update Deployment:** Supported the deployment of software updates and verified system functionality post-update to ensure performance stability and reliability.

Final Year Projects

APRIL 2024 – SEPTEMBER 2024 | University of Wollongong |Full-Stack Engineer
Portfolio: **http://stockinsight.live/**

- **Full-Stack Development:** Collaborated to develop a web-based stock market forecasting platform, integrating real-time data via RESTful APIs.
- **Machine Learning:** Achieved 81% accuracy in stock price predictions using advanced machine learning algorithms.
- **AI-Driven Recommendations:** Built an AI-powered recommendation system with sentiment analysis, utilizing FastAPI and MongoDB for backend development.
- **Frontend Development:** Developed a responsive frontend with ReactJS and Tailwind CSS for seamless user experience.
- **Project Contribution:** Contributed across all project phases, from ideation to final delivery, while enhancing technical and problem-solving skills.

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Key Skills

Databases
- MongoDB
- SQL
- Oracle SQL

Machine Learning Algorithms/libraries
- Random Forest
- Naïve Bayes
- Decision Trees
- SVM
- Neural Network
- Scikit-learn
- TensorFlow
- Keras
- pyTorch
- Pandas
- NumPy
- Matplotlib
- Seaborn

Final Year Projects

OCTOBER 2019 – DECEMBER 2019 | Nanyang Polytechnic | AI/ML Developer
NYP Final Year Project
- **Project Development:** Co-developed Reading Buddy, an interactive game to improve children's reading skills through engaging learning experiences.
- **Tech Stack:** Used Python, SQL databases, and AI frameworks like OpenCV and TensorFlow, integrating facial and speech recognition for an immersive learning environment.
- **Collaboration:** Actively contributed to brainstorming and feedback throughout all phases, focusing on teamwork and problem-solving.

Interests
- Cooking
- Hardware Enthusiast (PC Building)