Yuezhexuan Zhu

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Highlights of Qualifications

- Pursuing a Bachelors Degree in Computer Science with a Statistics Minor
- Comprehensive Experience in software development, data analysis, and generative art
- Passion for conducting research and solving real-world problems through coding
- Initiative to organize and lead the team towards specific goal and persistence to get tasks done
- Technical Skills: Java, Python, C, R, Processing, Adobe PS, and Adobe PR

Education and Training

Bachelor of Science Computer Science Specialist & Statistics minor   **June 2025 (Expected)**

University of Toronto | GPA(3.95/4.00)

Awards: Dean's List (2020-2021)

Internship and Academic Experience

Intern, Metaverse Dualchain Network Architecture (DNA)   **June - September, 2020**

- Conducted 3 cryptocurrency research and took part in whitepaper composition and its diagram design
- Used Java to develop a bounty platform that enables task release and cryptocurrency reward

Lecturer, APCS content teaching   **May - October, 2020**

- Recorded instruction videos of coding question from 2010 to 2019 and taught basic syntax, loops, methods, class & objects, and inheritance for a 9-student class for five months
- Students got an average 4.07/5.00 in 2021 APCS, which ranked top 25%

Video and Content Creator   **April, 2020 - Now**

- Personal channel got 50k+ views and 500+ subscribers
- Focused on scientific video and Processing tutorial about art generation and algorithm visualization
- Representative generative art: Flow Field, Mandelbrot Set, and Chaos Game

Team Leader, High School Mathematical Contest in Modeling   **September - November, 2019**

- Developed customizable roller-coaster ranking system based on Analytic Hierarchy Process
- Led the school team to code the program and compose 30-page paper and in one-week limited time
- Got "Honorable Mention" (top 15%) in the contest.

Programmer, Machine Learning Competition on Kaggle   **October, 2017 - January, 2018**

- Employed models from scikit-learn over provided data after preprocessing
- Reached top 15% in "bike sharing demand" and top 7% in "house price prediction" , the ranking can be seen at bike-sharing-demand and house-prices-advanced-regression-techniques

Research on Crime Prediction in Los Angeles City   **April – November, 2018**

- Compared machine learning algorithms' performance and applied Random Forest to achieve accurate predictions
- Conducted research paper "Comparison of Model Performance for Basic and Advanced Modeling Approaches to Crime Prediction"
- The paper was published on "Scientific Research", Doi: 10.4236/iim.2018.106011

Skills and Competencies

- Software development
- Problem break-down
- Code Optimization
- Data collection and analysis
- Highly organized
- Rational
- Communicate actively
- Persistent