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NOAH NGUYEN

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EDUCATION

University of Waterloo   **Fall 2022 - Present**

First-year student in Honors Mathematics

- Pursued to major in Mathematical Finance or Actuarial Science
- Relevant Coursework: Language and Proofs in Algebra, Calculus I for Honors Mathematic, Intro to Computer Science I, Introduction to Macroeconomics
- Skills from Coursework: Algebraic Proofs, Analytic Proofs, Observation

WORK EXPERIENCE

Data Entry Clerk, Intern   **Vuihoc.vn**   **May 2022 - August 2022**

Elementary Online School Website

- Reduced workload for other colleagues by daily inputting 75 Math questions and images prepared from Excel to the website
- Corrected errors appearing in 15% of Math questions before inputting into the educational website system
- Reduced 68% of time and workload by using Dropzone to drag and drop multiple Math question images at once into the website

Math Tutor, Volunteer   **Columbia International College**   **Summer 2021 - 2022**

- Tutored Advanced Function, Calculus, and Data Management after getting a math average of 97%
- Scheduled 2 drop-in sessions per week for peers to feel free to ask Math questions

TECHNICAL EXPERIENCE

Projects

- **RNA Structure Prediction** (Ongoing). Applied Machine Learning based algorithms (Probability and Linear Algebra) to create a software for a find of drugs for untreatable diseases
- **Elliptic Curve Cryptography** (Ongoing). An application on Elliptic Curve Cryptography to produce one-way encryption by applying Abstract Algebra knowledge gained from the coursework

AWARDS

- **Third Prize, Vietnam National Creative Contest:** Awarded 3rd prize for the creation of a Miniature 3D physical model project of the elementary school, out of 629 projects
- **ABRSM Piano Theory Certification:** Passed with merit with an 84/100 in the ABRSM Piano Theory Exam Grade 5 (Highest theory grade)
- **Poinsettia Award (the single best student):** Awarded the single best student 2 times in the Science-Related Subjects Contest at the elementary school

SKILLS

- **Programming:** Java (Basic); Python (Basic); Racket (Basic); DrRacket
- **Other:** Solving Math Proofs; Tutoring; Excel; Word; Outlook; PowerPoint
- **Math:** Cryptography (Shift Cipher & Affine Cipher)