Thanh Duong

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(717)-420-7594

github.com/thanhqduong

Skills

Programming languages: Python, Java, R.

Web: HTML/CSS.

Statistical software: Excel, Stata.

Education

Bachelor of Science in Computer Science, Bachelor of Arts in Mathematics

Expected May 2024

GPA: 4.22/4

Gettysburg College- Gettysburg, PA

Awards: Dean's Honor List (3 semesters), Malcolm R. Dougherty Mathematics Award (Fall 2020 – Spring 2021), Paul Mugabi problem-solving award (Fall 2021).

Applied Data Science Certificate

March 2020 - August 2021

Vietnam National University Ho Chi Minh City - University of Science - Computer Science Center

Learned Data Science skills (Data preprocessing, SQL, data visualization, and machine learning algorithms with Python and R).

Projects

The Newton's Fractal for Quadratic and Cubic Polynomials

September 2021 - December 2021

Final project of the Chaos and Dynamical Systems course

- Conducting some analysis of Newton's Fractal, with special focus on Quadratic and Cubic Polynomials
- Paper: https://github.com/thanhqduong/PublicDocuments/blob/main/Thanh Duong Newton's Fractals.pdf

Interactive Animation for the Filled Julia Set

December 2021

Integrative Experience of Chaos and Dynamical Systems and Computer Science II courses

- Using Java FX to draw an interactive animation of the Filled Julia Set
- Source code: https://github.com/thanhqduong/InteractiveFilledJuliaSet

The Mathematics of Data Science: Principal Component Analysis

July 2021 - August 2021

PiMA - Projects in Mathematics and Applications 2021

- Performing the algorithm with Python: visualization, data dimension reduction, image compression collaboratively on a team
- Paper: "Principal Component Analysis" https://pimavn.github.io/summer camps/2021/student papers

Co-Curricular Engagement

Math Peer Learning Associate – Mathematics Department of Gettysburg College

August 2021 - Present

Occasionally hold class sessions, assist 10 students with their learning.

Math CalcAid tutor – Mathematics Department of Gettysburg College

August 2021 - Present

Assist students in understanding math concepts in all Calculus classes at weekly review sessions.

Event team member | Vietnamese Students Association – Gettysburg College

August 2021 - Present

Help plan, organize activities for bi-weekly events of the club of 30 members.

Bass Singer at Gettysburg College Concert Choir

August 2021 – Present

Practice weekly and perform at Gettysburg College events.