DUNG DO

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EDUCATION

Oberlin College, Oberlin, Ohio
B.A. in Computer Science and Mathematics — Expected Graduation: May 2024
GPA: 4.0/4.0

Relevant Coursework:

- Algorithms
- Theory of Computation
- Machine Learning-Data Mining
- Linear Optimization
- Nonlinear Optimization
- Probability

SKILLS & CERTIFICATIONS

Languages: Python, MySQL, Java, C, C++
Tools & Frameworks: Git, Visual Studio Code, Eclipse
Certifications: CodePath Intermediate Software Engineering (June 2022 – August 2022)

WORK EXPERIENCE

Research Assistant — Oberlin College, Oberlin, Ohio
September 2022 – Present

Project 1: Pricing and Privacy with Professor Sam Taggart
- Conducted theoretical analysis on threshold equilibrium in repeated strategic economic interactions.
- Employed numerical experimentation and graphical visualization to gain practical insights.

Project 2: Optimal Art with Professor Robert Bosch
- Developed a Python program applying dither technique to create artistic visualizations.
- Constructed integer program models for brick-pixel mosaics to find the optimal artistic output.

Project 3: Open Agent Systems with Professor Adam Eck
- Worked on a machine learning project focusing on partially observable Markov decision processes.
- Conducted experiments and analyzed data on a multi-agent AI system in a simulation environment.

Grader & Peer Tutor — Oberlin College, Oberlin, Ohio
September 2021 – Present

- Assisted professors in grading and provided constructive feedback on labs and assignments.
- Facilitated weekly tutoring for over 20 students in various courses.

PROJECTS

Machine Learning-based Query-by-Humming

- Collaborated on building ML models for song identification through hummings.
- Implemented models with TensorFlow using Multi-classification Neural Network.

Stereo Reconstruction

- Led a team of 4 to implement an algorithm creating a depth map from 2 images in C++.
- Oversaw project planning to ensure completion within 2 months.

MiniScheme Interpreter

- Explored Racket to understand interpreted languages.
- Created an interpreter for Racket handling lambda expressions, closures, and recursion.

HONORS/AWARDS

- Third Place in Ohio Wesleyan University 2022 Programming Contest.
- Fifth Place in Denison ACM Programming Contest Spring 2023.
- John F. Oberlin Scholarships at Oberlin College.