Het Patel

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Education

The State University at New York at Buffalo   *August 2023 – May 2027*
BS in Computer Science
- **Minor:** Statistics
- **GPA:** 4.0/4.0
- **Coursework:** Computer Organization, Systems Programming, Data Structures, Algorithms, Linear Algebra, Discrete Structures, Statistical Methods, Probability

Technologies

Languages: C, Java, C++, Python, JavaScript, HTML, CSS
Frameworks: Node.js, React, Pandas, JUnit, MicroPython
Tools: Visual Studio, IntelliJ, Emacs, Eclipse, Sublime, Atom, Arduino IDE
Technical Skills: Object Oriented Programming, Data Structures and Algorithms, Systems Programming, Exception & File Handling, Statistical Inference, Experimental Design

Projects

Cellular Automaton Simulator   *github.com/HP-002/alices-game-of-life* ⧉
Tools: C++, Arduino Uno R4, NPN Transistors

- Developed a Cellular Automaton Simulator following Conway's fundamental rules along with randomization.
- Programmed Arduino Uno R4 Microcontroller in C++ to stimulate generations in a 2-D grid. Designed and integrated a logic circuit using NPN Transistors and diodes to process cell states according to Conway's rules.

Experience

Peer-Assisted Learning (PAL) Leader   *Buffalo, NY*
Tutoring & Academic Support Services   *Feb 2024 - Present*
- Lead PAL sessions for Statistical Methods as part of the Supplemental Instruction program.
- Collaborate with faculty by attending lectures and aligning session content with course objectives to support student success.
- Facilitate engaging review sessions that promote active participation, reinforce course material, and foster critical thinking to improve students' academic performance.

Math Place Tutor   *Buffalo, NY*
Thomas J. Edwards Undergraduate Learning Center   *Feb 2024 - Present*
- Provide tutoring support in Algebra, Precalculus, Business Math, and Calculus I & II, tailoring assistance to individual student needs.
- Help students develop a deeper understanding of course material while facilitating active learning habits and independent problem-solving skills.

Student-Athlete Tutor   *Buffalo, NY*
Student Enrichment Center   *Aug 2024 - December 2024*
- Provide one-on-one and drop-in tutoring for student-athletes in subjects including Computer Science I & II, Statistical Methods, and math courses ranging from Precalculus to Calculus II, Management Math, and Linear Algebra.
- Assist students in understanding lecture content, reviewing course material, and practicing problem-solving while tracking academic progress and reporting to program coordinators and coaches.

Summer Bridge Program Teaching Assistant   *Buffalo, NY*
UB Arthur O. Eve Educational Opportunity Program   *Summer 2024*
- Collaborated with the professor to facilitate classes, including grading assignments, quizzes, and providing instructional support while also monitoring class performance and provide personalized support.
- Led class recitations and offered tailored support to help students master course concepts, complete assignments, and strengthen their understanding through targeted practice and review.