Paul Edelman

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EDUCATION

University of Delaware, Honors College, College of Engineering, College of Arts and Sciences
Expected Graduation: May 2027
Bachelor of Science in Computer Science, Bachelor of Arts in Applied Mathematics
GPA: 3.778

RELEVANT COURSEWORK

Discrete Mathematics
- Mastered principles of efficient algorithm design and analysis, principles of propositional and predicate logic
- Understanding of discrete structures, logic principles, combinatorics and graph theory

Linear Algebra
- Proficient in linear transformations, matrix operations, and eigenvalue analysis
- Mastery of vector spaces, linear equations and eigenvalues

Intro to Systems Programming
- Acquired familiarity with the Linux/Unix command line, honing skills in command-line navigation and system interaction through hands-on practice
- Cultivated proficiency in C programming, leveraging professional tools for software development, and gaining experience in hardware-level programming

Fundamentals of Optimization
- Worked with computational and non-computational methods of optimizing functions
- Learned applications in linear and nonlinear programming

SKILLS

- Proficient in C, C++, Python, Javascript, Typescript, and HTML programming languages
- Proficient in AutoCAD, Fusion360, and Inventor 3D modeling software

WORK EXPERIENCE

Physics Lab Intern at Delaware State University OSCAR Lab, Dover, DE   *June 2022 - August 2022*
- Worked with Python, C, and Matlab for interaction between Raspberry Pi, weather instruments, and Arduino boards
- Presented and published research at a DSU research symposium

Physical Therapist Aide at Edelman Spine Physical Therapy, Dover, DE   *July 2020 - Present*
- Prepare and organize treatment rooms and various exercise and clinical equipment
- Greet patients and provide thorough customer service by solving problems and answering questions

Lifeguard at Delaware State Beach Patrol, Rehoboth, DE   *May 2024 - Present*
- Trained to be physically and mentally capable of performing life saving operations
- Assisted patrons with medical issues on the beach and in the water
- Competed in lifesaving competitions against other patrols
- EMR, CPR, AED, and First Aid certified

Undergraduate Teaching Assistant, Newark, DE   *August 2024 - Present*
- Lead discussions on Python and introductory programming methods to students
- Worked with professors and other teaching assistants to make information digestible

ACTIVITIES

Code Club Instructor, Dover, DE   *June 2022 - May 2023*
- Developed computer science educational resources consisting of slideshow presentations, example code, and interactive physical problems
- Taught 40+ young teens and learning challenged students

LeetCode   *Nov 2022 - Present*
- Completion of 150+ problems of varying complexity
- Researched and mastered techniques and algorithms with practical applications

AWARDS & HONORS

University of Delaware Presidential Scholarship, Newark, DE   *August 2023 - Present*
- Scholarship awarded for academic excellence and community leadership

University of Delaware Dean's List, Newark, DE   *August 2023 - Present*
- Earned a minimum of a 3.5 GPA over the course of a semester