

# David Allen Torrijos Santos

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## SUMMARY

A tenacious, honest, and intelligent college student striving to succeed with an interest in studying computer science in a four-year term in Towson University.

## EDUCATION

### Perry Hall High School, Class of 2019 – Perry Hall, Maryland

- **Graduated**
- **GPA: 4.0**
- **SAT: 1160**
- **Major: Computer Science**
  - **AP Courses Taken:**
    - Computer Science Principles
    - Human Geography
    - French 5/6

### Towson University, Class of 2023 – Towson, Maryland

- **Currently Attending as Senior**
- **Major: Computer Science with Software Engineering Track**
  - **Notable Courses Taken:**
    - COSC 175: General Computer Science
      - Computer systems overview, algorithm development, data representation, software design and testing methodologies, and brief overview of advanced topics.
    - ITEC 201: Metropolitan IT Structure
      - Technological aspects that drive the Greater Baltimore area and its surroundings by placing them in a social and economic context. Evaluated how these technologies affect Baltimore City's status and development by comparing our systems to the ones of other cities.
    - COSC 236: Introduction to Computer Science I
      - Introduction to structured problem-solving, algorithm development and computer programming.
    - COSC 237: Introduction to Computer Science II
      - Development of programming and problem-solving skills, with a focus on object-oriented programming and design. Introduction to data structures and their implementations (lists, stacks, queues, and trees), recursion, and searching and sorting algorithms. Learned about encapsulation and information hiding, inheritance, polymorphism, and generics.
    - COSC 290: Principles of Computer Organization
      - Computer organization and architecture including computer arithmetic, digital logic, principles of assembly language, memory system organization, computer interfacing, CISC and RISC architecture.
    - CIS 377: Introduction to Cybersecurity
      - Provided an overview of key cybersecurity concepts and practices and broadly characterizes the global security landscape, including cyber law and cyber warfare. Covered on topics such as foundational security principles, risk management, and adversarial thinking as an organizing narrative for a series of modules on data security, system security, network security, personal security, and societal security.

- COSC 336: Data Structure and Algorithm Analysis
  - Fundamental data structures used in programming and the basic techniques used to design and analyze algorithms. Topics include complexity analysis of elementary algorithms, linear data structures, trees, heaps, graphs, search algorithms (balanced binary trees, B-trees, hashing), sorting algorithms, basic graph algorithms (graph traversal, topological sorting, shortest path, minimum spanning trees), and paradigms in the design of algorithms (divide and conquer, dynamic programming, greedy).
- COSC 340: Systems Programming
  - Covered the underlying concepts underlying all computer systems and introduces the student to the low-level abstraction of a computer system from a programmer's point of view, with an emphasis on low-level Assembly and C programming. Topics include data representation, 32-bit vs. 64-bit implementation, device driver development, the process of compiling and linking, low-level memory management and basic processor architecture.
- COSC 350: Data Communications and Networking
  - Network architecture and protocols, data communications, LANs and cellular networks, forwarding and routing, TCP/IP suite, network programming and packet analysis.
- COSC 418: Ethical and Societal Concerns of Computer Science
  - Ethical questions and societal concerns related to the widespread use of computers and the resulting responsibilities of computer scientists.

## **ACADEMIC ACHIEVEMENTS/SCHOLARSHIPS**

- Honor Roll student (2015-Present)
- 3<sup>rd</sup> Place in Elks Lodge 469 in Towson (3/31/19)
  - Award: \$1,000
- Delegate Lauren Arikan Scholarships (Fall 2019-Present)
  - Award: \$1,200
- Senator J. B Jennings Scholarship (Fall 2019-Present)
  - Award: \$400 per semester
- Workforce Shortage Assistance Grants (Fall 2020-Present)
  - Award: \$2,000 per semester
- TU Foundation Scholarship (8/20/21)
  - Award: \$1,000

## **VOLUNTEER EXPERIENCE**

### **Volunteer | Towson Elks Lodge #469 | April 2019 - Present**

- In the process of being verified as a member of Lodge #469
- Participated and assisted other volunteers in various community fundraisers and events
  - Towson Elks Annual Food Drive
  - Towson Elks Craft Fair

### **Volunteer | Wilson Church | November 2019**

- Participated and assisted other volunteers in serving meals for the poor and homeless on Thanksgiving
  - Served Thanksgiving Meals

### **Volunteer | Project Serve at Towson University | August 2019**

- Participated with other volunteers in each of the following locations:
  - Prepared food for the homeless in Bread and Beans
  - Assisted the elderly patients at Levindale Geriatric Center
  - Assisted the Sixth Branch in converting a green space into a garden in East Baltimore

### **Volunteer | Anacostia Watershed | June 2012**

- Helped with other volunteers clean up trash along the Anacostia River in D.C.
  - Skimmed off disposed plastics from the Anacostia River
  - Sorted waste into either trash or recycling
  - Spread information and awareness for the rehabilitation of the river

## **EMPLOYMENT**

**Part-Time Sales Associate | Mama Rosa Grill Express | April 2022 – Present**

**Servo Ground Intern | Northrop Grumman | June 19 – August 25 2023**

## **EXTRACURRICULARS**

### **• High School:**

- **Mu Alpha Theta Mathematics Honor Society (11-12)**
  - Member from 2017 – 2019
  - Participated in a competition to demonstrate math knowledge
- **Science National Honor Society (11-12)**
  - Member from 2017- 2019
  - Various explanations of multiple scientific phenomenon and knowledge
- **Tri-M Music Honor Society (11)**
  - Member from 2017 – 2019
- **French Honor Society (9-12)**
  - Member from 2016 – 2019
  - Provided tutoring for students who had difficulty in learning French
- **Chess Club (9-12)**
  - Member from 2016 – 2019

### **• Towson University:**

- **Filipino Community at Towson:**
  - Member from 2019 – Present
  - Attended meetings to represent the Filipino American community
- **National Society of Leadership and Success (NSLS), Towson Chapter:**
  - Member from 2021 – Present
  - Joined a network of students and important people to create lifetime goals and connect to the community.
- **Upsilon Pi Epsilon (UPE) Honor Society:**
  - Member from 2020 – Present
- **National Society of Collegiate Scholars (NSCS), Towson Chapter:**
  - Member from 2021 – Present
  - Joined a network of students and important people to connect to the community.
- **Asian, Pacific Islander, Middle Eastern & Desi American (APIMEDA) Leadership Institute:**
  - Member from 2020 – Present
  - Attended meetings to represent various Asian-American citizens and their lives.

- **Delta Alpha Pi (DAP) International Honor Society:**
  - Member from 2019 – Present
  - Represented students with Autism Spectrum Disorder (ASD) among other students with disabilities at Towson.
- **Software Engineering Club:**
  - Member from 2021 – Present
  - Attended meetings to gain additional knowledge in the field of software engineering.

**REFERENCES (WILL BE PROVIDED BY REQUEST)**