Dinesh Keserla

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EDUCATION

Vista Ridge High School Cedar Park, TX

Anticipated Graduation: May 2021 August 2017- Present

Unweighted GPA: 4.000/4.000 **Weighted GPA**: 5.675/6.000 **Class Rank:** 4/551

Past AP Classes/Exams:

- AP Chemistry - 4
- AP Computer Science A - 5
- AP Computer Science Principles - 5
- AP Human Geography - 4
- AP Macroeconomics - 5
- AP Microeconomics - 5
- AP Statistics - 5
- AP World History - 4

STEM Related Honors Courses: Pre-AP Biology, Pre-AP Chemistry, Pre-AP Physics, Computer Science III, Digital Forensics

Future STEM Related Honors Courses: AP Biology, AP Calculus BC, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism

SAT: 1460/1600 (690 Evidence-Based Reading and Writing, 770 Math)

ACT: 33/36 (English 30, Mathematics 35, Reading 33, Science 32)

Austin Community College Austin, TX

Dual Credit Student June 2019 – Present

Completed/Currently taking Courses:

- US History (H1302) – A
- US Government (H2305) – A
- TX & Local Gov (H2306) – A
- Calculus I (M2413) – A
- Discrete Mathematics (M2305) - currently taking

Courses Planning to take next semester:

- US History (H1301)
- Calculus II (M2414)

WORK EXPERIENCE

Code Ninjas – Senior Instructor (Oct 2018 – Sep 2020) Cedar Park, TX

Coding Instructional Facility

- Served as a leader consistently for other instructors, ensuring the students were taught effectively.
- Taught children K-12 STEM-related skills as well as various programming languages including Java, JavaScript, Python, Lua.
- Instructed young students on different Computer Science concepts integral to programming various programs.
- www.codeninjas.com/tx-cedar-park

HONORS AND AWARDS

- **DECA International Finalist (11th):** Placed in the top 5 competitors nationwide at the International Career and Development Conference for DECA in the category Sports and Entertainment Marketing Operations Research.
- **National AP Scholar (11th):** Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.
- **National Honor Society (11th, 12th):** Inducted into National Honor Society for academic excellence, outstanding character, and exceptional leadership.
- **Texas DECA State Winner (9th, 10th, 11th):** Ranked in the top 8 competitors statewide, advanced to the International Conference.
- **Texas DECA District 5 Winner (9th, 10th, 11th):** Ranked in the top 8 among competitors across the Austin Metro Area, advanced to the state conference.

ACTIVITIES

- **FTC Robotics:** Served apart of software team in designing a robot to complete various tasks in an autonomous, pre-programmed manner as well as a manually controlled section. Created Java based applications that utilized machine learning vision libraries to perform tasks during the autonomous period. Additionally, worked closely with hardware members to engineer a optimized robot that would be suited for a variety of situations and configurations.
    - 9th Grade: Member - 2 hours per week for 35 weeks
    - 10th Grade: Software Apprentice - 4 hours per week for 35 weeks
    - 11th Grade: Software Competitor - 6 hours per week for 35 weeks
    - 12th Grade: Software Lead 6990 - 7 hours per week for 35 weeks

- **DECA (9th, 10th, 11th):** Competitor of one of the biggest clubs worldwide, focused on entrepreneurship, management and business. Competed in the category Sports and Entertainment Marketing Research, where a specific company was researched, and a well-ordered business plan was proposed. This category required a thoroughly written paper with in-depth details about the proposed plans and an accompanied presentation over the information in the paper. Reached and Competed at the international level each year of competing.
    - 9th, 10th, 11th Grade: Competitor - 4 hours per week for 35 weeks
    - 12th Grade: Member - 1 hour per week for 35 weeks
- **National Honor Society (11th, 12th):** Inducted into the National Honor Society, for upmost integrity to the community. During 11th grade also served as an apprentice to one of the officers, which allowed me to understand the inner managing of the organization. During my 12th grade year I was elected as the Treasurer, taking care of the various financials necessary for my National Honor Society chapter to continue and flourish.
    - 11th Grade: Member - 2 hours per week for 30 weeks
    - 12th Grade: Treasurer - 3 hours per week for 30 weeks
- **Software Project Creator (10th, 11th, 12th):** Created various application-based software applications utilizing knowledge gained from classes in addition to research and learning done in own time. These projects utilized a variety of software languages to accomplish goals to make life easier and more productive.
    - 10th Grade: Software Creator - 2 hours per week for 20 weeks
    - 11th Grade: Software Creator - 2 hours per week for 25 weeks
    - 12th Grade: Software Creator - 3 hours per week for 35 weeks
- **Digital Forensics Club (11th, 12th):** Served as a community leader in educating students on cybersecurity and safe online practices to protect themselves. Utilized knowledge gained from my several computer science classes in addition to various events that I have participated in such as Cybersecurity Capture the Flag events in order to give detailed explanations and unique perspectives on going into Cybersecurity and computer ethics.
    - 11th Grade: Treasurer - 2 hours per week for 25 weeks
    - 12th Grade: Co-Vice President - 3 hours per week for 30 weeks
- **UIL Mathematics & Computer Science (10th, 11th, 12th):** Participated as a member during sophomore year and then competitor during 11th (which was cut due to COVID-19). Competed on the Mathematics and Computer Science teams. Additionally, tutored the students new to the Computer Science UIL from my past knowledge in order to give them a competitive chance and educate them on computer science practices.
    - 10th Grade: Member - 1 hours per week for 20 weeks
    - 11th, 12th Grade: Competitor - 2 hours per week for 30 weeks
- **Diversity Club (11th, 12th):** Revitalized the Diversity Club in Vista Ridge and promoted new efforts and group activities in order to encourage other students to reach out and embrace their inner diversity and empress themselves within a safe environment.
    - 11th Grade: Junior Representative - 2 hours per week for 20 weeks
    - 12th Grade: Senior Representative - 2 hours per week for 35 weeks

- **National Spanish Honor Society (11th, 12th):** Inducted into the National Spanish Honor society in order to spread Spanish Culture awareness through community projects and various volunteering opportunities.
    - 11th & 12th Grade: Member - 2 hours per week for 20 weeks

VOLUNTEERING

- **Project Linus (25 hours):** Assisted in the making of blankets and quilts for children in need by streamlining the process for the people sewing and distributing the blankets.

MY PROJECTS

- **Zooba** Coded in Python utilizing BeautifulSoup, Flask, SQLAlchemy, and various technologies

  Codeveloped course management site that parses the Home Access Center database to seamlessly calculate GPA, provide assignment notifications, and recommend courses in addition to social networking capabilities. Try the Site!

- **Java GUI Yahtzee** Coded in Java utilizing the JavaFX framework

  A graphical user interface implementation of Yahtzee. Can keep track of previous scores and users played. Project utilized heavy inheritance and various data structures in order to work and transform the different data for a simple experience of Yahtzee.

- **Simple GPA Calculator** Utilized Java Swing to form the graphical interface

  Graphical Interface for calculating weighted Grade Point Average in the Leander Independent School District. Takes advantage of various data structures to store the data elements that the user can input in order to calculate the GPA for the student. Can calculate for a 6.0 Weighted GPA based of a student's classes.

- **Connect Four** Coded in effectively all vanilla JavaScript with the library P5JS.

  The classic Connect 4 game but with minimax algorithm implementation for an AI character. Makes moves based of the various potential moves the opponent can make while minimizing the worst case.

SKILLS AND TALENTS

- **Technical**

  Languages Ranked from Highest Proficiency:

  1. Java (Highly Proficient)
  2. Python (Highly Proficient)
  3. HTML, CSS, and JavaScript (Moderately High Proficiency)

  Experienced Technologies: Flask, P5JS, ReactJS, BeautifulSoup, Selenium, and JavaFX

  Digital Forensics Tool Proficiency: FTKImager, WireShark, SleuthKit