

Ian Valderas

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EDUCATION

Georgia Institute Of Technology

(2023 - Present)

Major: Computer Science (Honors Program)

I.M. Terrell Academy for STEM

(2019 - 2023)

Rank: #1 class of 2023 GPA: 4.80

Awards/Certifications: **National Hispanic Scholar Award, Fort Worth Mayor's Achievement Award, Young Men's Service League Superior Service Award, Certified SOLIDWORKS Associate in Mechanical Design, OSHA 30 Certification - OSHA 30-Hour General Industry, Microsoft Technology Associate (MTA) Certification: Intro to Programming Using Java**

(2023)

STEM Major: **Engineering, Computer Science, Robotics**

Related Coursework: **PLTW Engineering Design and Development, Discrete Math, Linear Algebra, AP Calculus 1, AP Calculus 2, Python-Based Computational Simulations, Object Oriented Programming**

WORK EXPERIENCE

Systems Engineering & Software Development Internship, Lockheed Martin – Fort Worth, TX

(Aug 2022 - Aug 2023)

- Updating and troubleshooting the F-35 Autonomic Logistics Information Systems through Autonomous Systems built through Robot Framework and Selenium and constructing a pipeline through GitLab to allow for seamless testing
- Leading and supervising college interns new to the position with programming lessons and personal guidance sessions
- Focused on utilizing Python, Selenium, Robot Framework, Selenium, SQL, and SQL Developer in professional projects

NASA Aerospace Scholar, NASA – Fort Worth, TX

(Nov 2021 - July 2022)

- Conducting research and designing base prototypes for safety systems and workout devices using CAD software and Solidworks for the Gateway being launched alongside the Artemis Mission
- Presenting concepts to NASA employees and engaging with the Texas Legislature about the research conducted
- Focused on Solidworks, AutoCAD, Python, Java, and Robotic Design for projects

SKILLS

Programming & Concepts

- **Java (Proficient), Python (Proficient), HTML (Proficient), C++ (Intermediate), Go (Beginner), CSS (Intermediate), Robot Framework (Proficient), Selenium (Proficient), SQL (Intermediate), Web Development (Intermediate), Systems Engineering, Troubleshooting (Proficient), Object Oriented Programming (Intermediate), Web Design (Intermediate), Javascript, C, Databases**

Software

- **SolidWorks (Intermediate), Git (Intermediate), GitHub (Proficient), GitLab (Proficient), Oracle SQL Developer (Intermediate), AutoCAD (Intermediate), Visual Studio Code (Proficient), Microsoft 365 Suite (Proficient)**

Clubs

- **Georgia Tech Experimental Rocketry, Georgia Tech Extended Reality, Web Dev at Georgia Tech, Video Game Dev Club, Cyberpatriots, First Robotics Competition, VEX Robotics Competition, 3D Printing Club, and the University Interscholastic League for Mathematics, Number Sense, and Computer Science**

PROJECTS

Georgia Tech Club Explorer - Web Development Project

(2023 - Present)

Built a Club Exploration Website from HTML, CSS, Next.js, Shakra UI, Clerk, MongoDB, and React.js to deploy and share through Vercel

Link (Prototype): <https://club-explorer.vercel.app/>

- Learned more about the specifics alongside React.js Web Development
- Utilized unique strategies to design the website using advanced CSS and some Shakra UI
- Maintained and updated the website with new information and proper mobile support

Epitaph - Video Game Development Project

(2023)

Programmed and designed a hack & slash roguelite 2D game made on Unity alongside a large development team using C++ and C#.

Link to GitHub: <https://github.com/IanCVal94/epitaph>

- Learned how to develop a game through Unity using C# and C++ as the main languages
- Utilized distinctive strategies to design enemy AI and NPC interactions with the player for a more involved gameplay experience
- Constantly update the game to fix possible bugs and then finalize a full game that is immersive to players

LEADERSHIP

• **Air Force Association CyberPatriots – Cyber Security Competition**

(2021 - 2023)

Windows 10 and Windows Server Threat Detection Lead

- Gave lessons on threat prevention strategies to my team and new students while competing

• **VEX Robotics Competition**

(2020 - 2022)

Programming Lead

- Built autonomous and driven-controlled programs from the ground up while teaching new peers

• **Young Men's Service League (YMSL) Community Service League**

(2020 - 2023)

Philanthropy Lead

- Hosted multiple food deliveries and a construction project for the ACH Child and Family Center

• **International Youth Ambassador for the City of Fort Worth**

(2022 - 2023)

Harashin Japanese Exchange Lead

- Met with Japanese government officials in Nagaoka, Japan to strengthen international relations