Jeremiah Pitts

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EDUCATION

JAMES MARTIN HIGH SCHOOL STEM ACADEMY GPA: 4.60

Computer Science, Engineering, Math/Science Pathway, AP Scholar Class of 2022

- **Relevant Coursework:** PLTW Principles of Engineering • PTLW Digital Electronics • PLTW Aerospace Engineering • ADV Computer Science III • ADV Cybersecurity • AP Calculus BC • AP Chemistry • Astronomy • AP Physics C: Mechanics

SKILLS

- Software: Autodesk Inventor, Fusion 360 (CAD), VSCode, Git, Github, GrabCad, MS Word, Excel, Pptx, Photoshop, Pixlr
- Engineering: FEA and Optimization, Excel Design Calculators, Laser Cutter, Band Saw, Drill Press, Mill & CNC Router (Limited)
- Computer Science: Data Structures & Algorithms, Reverse Engineering, Privilege Escalation, Terminals, SQL Injection, Linux, Ubuntu, Servers
- Programming Languages: Java, Python (Pandas+Numpy+Pyplot), HTML, CSS, TI-Basic, Batch, Scratch, JQL, Js, PHP, Powershell, Bash, C++, C, RobotC, Simulink, Regex

WORK EXPERIENCE:

Bell Flight and Aeronautics Center SEP 2021 - Now

- CyberSecurity/IT Intern, Worked on Business Data Access scripts, PowerShell Scripting, Legal Hold, Automation, JiraBoards, Company Articles, Splunk, Risk Assesments, etc. Worked in CyberSecurity Operations, Architecture, and Compliance.

VOLUNTEER EXPERIENCE:

Advanced Geometry, Calculus AB, Advanced Algebra II Tutor (Personal) Online

- Tutored Freshmen in Advanced Geometry; 2 hours a session, Tutored Seniors OCT 2020 - Now

Math National Honor Society (Mu Alpha Theta)

General Member NOV 2019 - Now

- Raised awareness and interest for math; Attended meetings, competitions; Placed 5th and 3rd in yearly Math Smackdown (schoolwide); Clothes drives

CodeFy (Organization) Online

Fusion 360 (CAD), IED, Robotics & 3D Printing Director, Mentor, Volunteer FEB 2021 - AUG 2021

- Drafted Curriculum for Fusion 360 (CAD), Robotics & 3D Printing, Introduction to Engineering Design; Relayed curriculum to classes between 15-45 registered students once or twice a week, created an taught students how to make robotics design calculators using Calculus and Physics.

Key Club (Organization) Arlington, TX

Fundraisers, Volunteering, Book Drives SEP 2019 - JUN 2021

- Participated in fundraisers, drives, meetings; Volunteered; Setup; Color Guard tournament crew team; Attended meetings; Sold books

Arlington Public Library Chess Club AUG 2016 - AUG 2018

- Played chess; Taught members strategies; Participated and won 1st in tournaments; Set up; USCF Rating ~1100; Shelved Books; Helped with programs

EXTRACIRRICULAR EXPERIENCE:

Mark Cuban AI Foundation OCT 2021- NOV 2021

- Accepted into AI Training Camp held by billionaire entrepreneur Mark Cuban
- Granted training resources

CyberPatriot AUG 2021 - Now

- Trained for national CyberSecurity Competition funded by the Air Force involving Windows, Packet Tracing, and Linux.
- Team placed Gold & Platinum (Ubuntu accumulated 123+ points throughout two competitions)

SANS Foundations MAY 2021 - Now

- Taking professional cybersecurity training course (SEC275), incorporating Logic & Data Manipulation, Data Storage and Representation, Cloud Computing, Linux, Networking, Web Servers, Windows, Programming, Encryption, and Exploitation.

Massachusetts Institute of Technology MOSTEC MAY 2021 - Now

- Attended selective 6-month MIT program and was one of around 300 students picked from over 6000 applicants. Took two classes, focused on Machine Learning, directed by Professor Ying Lin, and Science Writing, directed by Mrs. Megan Wazoua.

*Not yet Completed

References Available Upon Request.

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- Submitted and conducted an interview for formal Science Article concerning the impact of sleep deprivation on productivity.
- Developed a number recognizer using numpy, pyplot, Machine Learning, and Neural Networks with around 97% accuracy, turning in a formal report of the findings and process.
- Attended several virtual webinars.

Lockheed Martin CyberQuest MAY 2021

- Participated in Windows Vulnerability Competition, Coach's Corner Event.

Pico CTF (Competition)

Online Team Founder, Team Everest FEB 2021 – MAR 2021

- Questions involving Servers, Terminals, Html, CSS, JavaScript, Reverse Engineer, Web Exploitation, Forensics, Binary Exploitation, Cryptography, Wireshark, and other skills in competition hosted by Carnegie Melon.

LeetCode FEB 2021

- Solved Advanced Java Coding Problems

NGA CTF FEB 2021

- Participated in Cybersecurity competition

National Society of High School Scholars (NSHSS) JUN 2020 - Now

- Gifted opportunities, inducted

CyberStart America (Competition) Online

Cyberstart America Competitor; National Cyber Scholarship Competition Semifinalist DEC 2019 - Now

- Forensics, Cryptography, Data Analysis, Terminal, Web Exploitation, Python and Steganography Cybersecurity Competition.

Academic University Interscholastic League (UIL Competitions) Arlington, Texas

Mathematics, Number Sense, Calculator Application Competitor; Computer Science, Science Member SEP 2019 - Now

- Attended camp, lectures, meetings, competitions; 3rd Place Calculator Application UIL District; 2nd Place Sophomore Summer Competition; Competed in timed mental math, Science, and Computer Science competitions.

Young Americans for Political Awareness (YAPA) SEP 2019 - Now

- Researched current events; Discussed political topics; Compiled facts regarding topics

Computer Science, Hack Club AUG 2019 - Now

- Attended meetings, planned media nights, events; Learned web design; Attended Competitions; Event Coordinator
- Designed and created website using Wix.

FIRST Robotics (High School Robotics Competition) Arlington, Texas

Pneumatics Captain; CAD Captain; Design/Build Assistant Captain JAN 2019 - Now

- Developed Physics and Calculus-based Feeder and Intake Design Calculators; Milled; Drilled; Used CNC Router; Taught Band Saw, Laser Cutter; Used Excel, MS Word; Only Designer/CAD-er for team for 2021 FRC Season.
- 2020 FIRST Regional – Quarterfinalist, Autonomous Award; Helped CAD, Build, FEA Stress Test; 2019 FRC UIL State – 2nd Overall, qualified for UIL National Competition; Regional – 1st Place Overall, Helped Build Drive Train, Actuators.

Chess Club NOV 2018 - Now

- President; Event Coordinator; Meeting Planner; Advertisement Team; Played Chess; Set up; Classroom maintenance; Planned events; Created advertisements; Hosted meetings; Created online chess club; Hosted occasional tournaments; Multiplied size of club by 3x; Raised funds; Max Bullet Online Rating: 1326

Ping Pong Club OCT 2018 - Now

- Played Ping Pong; Learned strategies; Participated in tournaments; General Member

Literary Magazine (LitMag) AUG 2018 - MAY 2019

- Edited Spreads for School's Literary Magazine, Planned out art piece, Manufactured large wooden frame, managed website, created posts
- Stage Crew for school talent show; Helped with waiting room; sold tickets; designed alternate advertisement

BEST Robotics Competition (High School Robotics Competition) Arlington, Texas

Actuator Design Captain; Arm Design/Build Captain; Pneumatics Captain, Programming Captain MAY 2018 - Now

- CAD-ed 2 BEST robots semi-independently; Tripled Team size by recruitment; Taught VEX Robotics at Boys and Girls Club.
- 2019 BEST State Competition – UIL State 2nd Place Overall; Regional – 2nd Overall; 2018 State Competition – UIL State 2nd Place Robotics; Regional – 1st Place Overall.

PROJECTS:

BEST Robotics Code 2021 2021

- Learned Robot-C

*Not yet Completed

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- Coded Robot for Robotics Team

https://github.com/jpitts134/RedShift_BEST_2021

Church Website 2021

- Upgraded church website almost from scratch using HTML & CSS

https://github.com/jpitts134/IBC

Portfolio 2021

- Coded Personal Portfolio almost from scratch using HTML, CSS, and JS

https://github.com/jpitts134/portfolio

Number Recognizer 2021

- Created Neural Network number recognizer mainly using tutorial for MIT Mostec Machine Learning class

https://github.com/jpitts134/NumberRecognizer

Swerve Drive Robot 2020 - Now

- CAD-ing swerve drive 2020 FRC Infinite Recharge Robot, used custom design calculator for optimization

Swerve-Board (Swerve Drive SkateBoard) 2021 - Now

- Designing and CADing Swerve Drive motorized Skateboard

Bike Frame 2021

- CAD-ed bike frame and wheels mainly using tutorial, customized.

3-D Printed Drones 2021 - Now

- CAD-ed 3D printed mini-drone chassis using tutorial, 3D printed, in process of ordering parts and assembling.

Tales Of Harry 2019 - Now

- Coding incomplete upgrade to 'Tales of Jim'

GrantBot 2019

- AI ChatBot made to resemble my friend my Sophomore year of High School, Grant. This was coded completely in Java, using previous code and building upon it.

https://github.com/jpitts134/GrantBot

GreenFoot Galaga 2019

- Coded multi-layer game with 45+ minutes of gameplay using Java API. Similar to Galaga or Space Invaders and open source.

https://github.com/jpitts134/GreenFoot_Galaga
https://www.greenfoot.org/scenarios/26902

Tales Of Jim 2019

- Coded command-line Java RPG / Fighting Pokemon-Style Game from scratch.

https://github.com/jpitts134/TalesOfJim

T-Shirt Canon Robot (Off-Season Robotics Project) MAY 2018 – MAY 2019

- Helped CAD, build T-Shirt canon robot used in pep rallies; Used Autodesk Inventor, manual tools, and pneumatics.

*Not yet Completed

References Available Upon Request.