

Noah Buchanan

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EDUCATION

Rockdale Magnet School for Science and Technology (RMSST) and Rockdale Career Academy Aug 2020 - May 2024
Weighted GPA: 4.77

Career Pathway: Computer Science

Advanced Placement (AP) Courses Taken: Environmental Science, U.S. Government and Politics, Chemistry, Biology, Computer Science Principles

12th Grade Scheduled AP Courses: Physics C, Calculus, Computer Science

Dual Enrollment Courses Taken: Advanced Comp/English, US History, Critical Reading/Writing II, US Gov

12th Grade Scheduled Dual Enrollment Courses: American Lit., Macro Economics, Public Speaking, American Gov.

RESEACH EXPERIENCE AND AWARDS

- ***"Bridging The Education Gap: Using Django to Inspire Technology."*** 2022-2023
 - Grand Champion winner, selected to advance to Georgia Science and Engineering Fair (GSEF)
 - Recipient of National Student Innovative Award & chosen to travel to IL for NCSSS Research Conference
 - 1st Place at the Rockdale Regional Science and Engineering Fair

<https://noah6544.pythonanywhere.com> is an educational web-course I created using Django, Python, HTML, and CSS. It teaches programming basics and applies them in a real-world language, python. It has user authentication, and spontaneously creates content pages. All code used can be found on my GitHub.

- ***The Effect of Facial Recognition on Racial Bias.*** 2021-2022
 - 1st Place at the Rockdale Regional Science and Engineering Fair

I used Python programming with Computer Vision to investigate the concept of facial recognition's effect on racial bias. I utilized tools such as Python, OpenCV, NumPy, Matplotlib, Google's MediaPipe facial recognition solution, and large image databases (10,000+) to gather data and generate numerical scores, ran trials, and performed "Big-Data" analysis. All code used can be found on my GitHub.

OTHER AWARDS AND HONORS

- Governor's Honors program: State Semi-Finalist 2023
- East Atlanta Technology Fair: 2nd Place, 3D Modeling 2023
- RMSST Black History Month Poetry Competition: Winner 2023
- Principal's List Award 2022 & 2023
- AP Scholar with Distinction 2023
- East Atlanta Tech Fair: 1st Place, 3D Modeling 2022
- Georgia Student Technology Competition (GaSTC): Qualifier, 3D Modeling 2022
- Rockdale Youth Leadership: Certificate of Leadership 2022
- SkillsUSA State Championships: 3rd Place, 3D Visualization and Animation 2021
- Most Outstanding Athlete, RCHS Cross Country 2021

WORK EXPERIENCE

Rockdale County Government Technology Services

August 2023 - Present

Student Intern

Rockdale, GA

- Working with multiple departments to learn, help, and provide creative solutions.

Rockdale Career Academy (RCA)

Conyers, GA

Information Technology (IT) Apprentice

Aug 2022 - May 2023

- Worked directly with the Head of Intel on various computer related projects.
- Assisted the IT team and RCA staff with troubleshooting, updating laptops, and PC equipment carting.

LEADERSHIP EXPERIENCE

Project Inspire Technology

Jan 2022 - Present

- Project that I started in 10th grade to introduce elementary school students to basic computer hardware and software, with the goal of getting them excited and curious about computer technology.

- I worked in collaboration with RMSST's and CJ Hicks's school administrations and taught 4th and 5th graders programming (python) and computer hardware, using interactive hands-on teaching.
- I'm now continuing this project at General Davis Middle School where every other week I work with students to build on their coding knowledge. This is a long term position, and I'm excited with how much they can learn.

RMSST Ambassador 2022 - Present

- Serve as tour guide for incoming freshmen, parents, and sponsors, and participate in outreach events.

RCCHS Youth Commission International (YCI) Aug 2022 - Present

- Student Bible Study Member & Co-Speaker. Prepare & preach messages on Friday mornings.

Rockdale Youth Leadership (RYL) program Sept 2021 - Present

- Interact with community leaders and school administrators to enhance my awareness of community needs and resources. Also participate in interactive workshops, special tours, and community service projects.

Southside Christian Fellowship Church 2019 - Present

- Counselor at Vacation Bible School during the summer, and lead guitarist/worship leader of Youth Group.

EXTRACURRICULAR ACTIVITIES AND CLUBS

- Southside Christian Fellowship Youth Group: Offers fellowship, support, and bible study. 2019 - Present
- RCCHS Cross Country Varsity Team 2021 - Present
- RMSST Association of Artists (Play the guitar) 2021 - Present
- SCF Youth Worship: Lead worship on the guitar 2022 - Present
- RMSST Ambassador 2022 - Present
- RCA Robotics Club Jan 2023 - Present
- United Unattached Athletics Track Team Jan 2023 - Present
- Rockdale Youth Leadership (RYL) 2021 - 2022
- Rockdale Youth Soccer Association: Played Club/Recreational Soccer 2011 - 2020

EXTRACURRICULAR COMPUTER PROJECTS (All code used can be found on my GitHub)

- Coding in Python, Java, and Django, and Design of 3D Models and Renders in Blender 2018 - Present
- Spaceship Tag Game: A multiplayer game I created using spaceship images. 2022
- Passion Project: A daily picture aligner automation tool; aligning images to eye coordinates. 2019-2021
- Many other smaller projects such as Calculators and small Python games.

VOLUNTEER ACTIVITIES

Southside Christian Fellowship Church 2019 - Present

- Counselor at Vacation Bible School every summer.
- Assist with various tasks including, fundraising, messages, children ministry, and Youth Worship music.
- Volunteer at Nursing Home and entertain residents by making cards, gifts, and singing Christmas carols.

Rockdale Emergency Relief Fund Dec 2022

- Participated in a food drive service to the needy. Unloaded boxes of food and prepared packages.

Samaritan's Purse – Operation Christmas Child Dec 2022

- Served at the shoebox gifts center, inspecting, and preparing gifts for shipment to kids around the world.
- Added filler gift items, scanned labels, organized shoeboxes by age and gender, and placed them on pallets.

RCPS Back to School Bash Jul 2022

- Student Ambassador: Ushered parents and students and assisted them and the administration as needed.
- Assisted *Change the Game Mobile Cuts* to cut students' hair. Used this time to advise younger students.

RCPS Leadership Summit Jun 2022

- RYL Student Ambassador during this summit organized for district leaders and personnel.

SKILLS

Advanced Python Programming	Intermediate Bios PC
Advanced 3D Modeling and 3D Rendering	Intermediate Troubleshooting
Advanced Video/Photo Editing, Visual Effects	Basic Terminal skills and Linux
Advanced Audio Editing/Manipulation	Microsoft Office
Advanced Computer Hardware & Application	Adobe Photoshop
Advanced Website Design & Maintenance	Intermediate Music Theory and Application
Intermediate Web Development (Django, HTML, CSS)	Intermediate Guitarist

