

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.

RESEARCH 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 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 intend to continue to grow this program to include other RCPS elementary schools.

- RMSST Ambassador** 2022 - Present
- Serve as tour guide for incoming freshmen, parents, and sponsors, and participate in outreach events.
- RCHS 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
- RCHS 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.
- Project Inspire Technology** Jan - May 2022
- Taught CJ Hicks Elementary 4th & 5th graders Programming (Python) and computer hardware on Thursdays.

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