

Bryson Wingate

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<https://github.com/SuperiorPython> | <https://bryson-win-portfolio.netlify.app>

EDUCATION

North Carolina A&T State University

Bachelor of Computer Science

- GPA: 3.80

Greensboro, NC

August 2023 - May 2027

Google Tech Exchange

Technical Program

Greensboro, NC

Jan 2025 - May 2025

EXPERIENCE

North Carolina A&T State University

Undergraduate Research Assistant

- Develop Python-based research tools and data pipelines within the X+ Intelligence Lab to support advanced computational analysis.
- Prototype and evaluate algorithmic solutions in collaboration with faculty, improving experiment reproducibility and workflow efficiency.
- Automate preprocessing and analysis tasks, reducing manual data handling and accelerating research iteration cycles.

January 2026 – Present

Greensboro, NC

CodePath / North Carolina A&T State University

Tech Fellow

- Mentored 150 students in Python and core CS concepts, increasing lab engagement and assignment completion rates in 42 lectures and lead 23 labs
- Improved debugging proficiency and assignment completion through live code walkthroughs and structured feedback.
- Established responsible AI-use guidelines in coursework, reinforcing academic integrity and critical evaluation of generative outputs

August 2025 – December 2025

Greensboro, NC

Cisco

Software Engineering Intern

- Built and delivered an AI-powered chatbot prototype integrating Jira, GitHub, and Confluence to streamline ticket and documentation workflows
- Designed and deployed scalable AWS infrastructure (EC2 Auto Scaling, Load Balancers, VPC networking) for production-ready performance
- Presented architecture and projected impact to senior leadership, demonstrating a 15% reduction in documentation search time.

May 2025 – August 2025

Durham, NC

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HCL, C#, SQL

Frameworks & Tools: Unity, AWS, Google Cloud, Streamlit, Git/GitHub

PROJECTS

EcoWatch Environmental Dashboard | React, Node.js, OpenWeatherMap API

December 2025

- Built a full-stack environmental dashboard using React with dynamic state management and a custom AQI visualization component to render real-time weather and air quality metrics.
- Developed a Node.js serverless proxy to aggregate and normalize multi-endpoint API data, implement asynchronous request handling, and improve reliability and error management.

Playlist DNA – Spotify Visualization App | Python, Streamlit, Spotipy, OpenAI API

October 2025

- Designed a data analysis pipeline using Spotipy to process 100+ playlists, performing genre frequency analysis and popularity trend modeling with interactive Altair visualizations.
- Integrated GPT-4o-mini for automated playlist summaries, implementing caching and rate-limit handling to improve load performance by 40% and ensure stable cloud deployment.