BLU MEDINA

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🔗 Blu Medina: Online Portfolio

OBJECTIVE

Detail-oriented computer science student seeking an internship to develop technical skills, contribute to meaningful projects, and grow within a fast-paced development environment while learning from experienced mentors.

EDUCATION

NORTHERN VIRGINIA COMMUNITY COLLEGE *Alexandria, VA*
Associate Degree in Computer Science *Expected May 2026*

DE Introduction to Problem Solving and Programming   DE Spreadsheet Software
DE Object-Oriented Programming   DE Advanced Database Management
DE Introduction to Discrete Structures   DE Precalculus I/II
DE Web Page Design I/II   DE General College Physics I

ARLINGTON CAREER CENTER - ARLINGTON TECH PROGRAM *Arlington, VA*
Advanced High School Diploma *Expected June 2026*

AP Computer Science Principles   Engineering I/Intro to Engineering Design

PROJECTS

POSTGRESQL SERVER/DATABASE *March 2025*
- Set up and manage a PostgreSQL database for my school's computer science department, supporting the curriculum of the database class.
- Serve as the system administrator for all virtual machines used across the department's computer science program.

BIGINT TEST-DRIVEN DEVELOPMENT *January 2025*
- Developed a C++ BigInt library using Test-Driven Development to handle large integers without limit. Implemented comparison operators and perform standard arithmetic operations.

ARLINGTON 2050 DATA ANALYSIS *October 2024*
- Used python libraries such as Pandas, NumPy, Matplotlib, spaCy, and WordCloud to visualize responses, perform sentiment analysis, create semantic search engines using vector embeddings, and apply dimensionality reduction for insight extraction.
- Did a data analysis for Arlington's 2050 community initiative by working with a specific dataset.
- Ingested and cleaned hundreds of handwritten entries from a variety of collection sites, organizing them into location-specific DataFrames for a targeted analysis.
- Ran a spell check program on the data to ensure the most accurate results.

NASA ADC APP *May 2024*
- Collaborated with a team to design and develop a Python based application which transformed thousands of lunar terrain data points into interactive 3D visualizations using the Ursina Game Engine.
- Contributed to data processing design and coordinated integration efforts.
- Presented the project at the PyCon US 2024 Poster Session.

PERSONAL WEBSITE *June 2023*
- Spent over 90 hours self-teaching HTML, CSS, and Javascript to develop a personal website, focusing on implementing responsive web design.

WORK EXPERIENCE

NOVA WEB DEVELOPMENT *Local student-run web development co-op*   *Arlington, VA*
Developer   *April 2024 – Present*
- Worker-owned tech co-op offering human-centered, open-source web development for nonprofits, communities, and local businesses.
- Collaborated closely with Liberian web developers to connect them with clients and support their efforts to reach a sustainable income level, empowering them to earn a fair wage through meaningful web development work.
- Developed websites/web apps using Django, HTML, CSS, and JavaScript to deliver engaging and functional web experiences.

HAUTE DOGS AND FRIES *Casual restaurant*   *Arlington, VA*
Cashier   *April 2023 – June 2024*
- Greeted customers in a friendly manner when they entered the restaurant, took on cleaning duties, made food for customers, and handled finances.

ACTIVITIES

NATIONAL HONORS SOCIETY   *Arlington, VA*
Member   *November 2024 – Present*
- Participated in monthly meetings and helped with NHS sanctioned events.

DJANGO GIRLS   *Arlington, VA*
Co-Founder & Co-President   *September 2024 – Present*
- An all women tech organization, developing Django projects and networking with industry leaders.
- Taught Django to high school girls, fostering their interest in web development.
- Secured a $7000 grant from Amazon to support club activities and fund a trip to the 2025 PyCon Conference.
- Developed a web application for spa reservations for the school's cosmetology class.
- Created a web application for the "Off The Pike" food truck, streamlining online order placement.

KITS FOR KIDS   *Arlington, VA*
Treasurer   *September 2024 – Present*
- Handled expenses from fundraising, donations, and purchases, while working directly with the schools treasure and other activity coordinators.
- Planned and helped out with multiple fundraisers, as well as organizing the funds after to purchase toys.
- Donated over $400 of toys to the oncology unit at the National Children's Hospital in D.C.

NASA ADC *Arlington, VA*
Founder & President   *September 2023 – June 2024*
- Led a diverse group of majority women to accomplish a goal of visualizing lunar terrain data using python.
- Built a 3D app for visualization of thousands of lunar terrain data points (lat/long). Converted data into Cartesian coordinates, transforming them into PNG formats, loading them into Ursina Game Engine for dynamic rendering.
- Fundraised over $4,000 to support club activities and to fund a trip to PyCon US 2024.
- Presented at a national python conference in Pittsburgh, PyCon 2024.

ADDITIONAL

Technical Skills: Advanced in HTML/CSS; Proficient in Django, Javascript, Postgresql, Python, C++, Excel.
Certifications & Training:
- C++ - Certified Entry-Level Programmer, January 2025.
- CIW Advanced HTML5 and CSS3 Specialist, April 2024.
- PCEP - Certified Entry-Level Python Programmer, January 2024.
- Workplace Readiness Certification, February 2023.

Awards:
- Technical Achievement Award - Web Page Design and Multimedia, 2023-2024.
- Student of the Semester, Fall 2024.