

Aatmann BC

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EDUCATION

Bachelor of Science in Computer Science.
Howard University, Washington, DC

CGPA: 3.95

Projected Graduation: May '25

COURSEWORK AND TECHNICAL SKILLS

Courses: Software Engineering, Computer Networks, Mobile App Dev, Applied Data Science, Computer Organization, Operating Systems (C), Theory of Computation, Data Structures, Algorithms, UNIX (Linux Lab), Linear Algebra, Discrete Structures

Technical Skills: Python (Most Proficient), Kotlin, Java, C, JavaScript, .NET, SQL, R, HTML & CSS, MATLAB, Pandas, NumPy, Git

Organizations: Engineers Without Borders, Google Developer Student Club, Howard University Math Department

Mentorship | Hackathon: Adobe, DELL Technologies, NREL, Codepath | Lionhacks NY 23', BisonBytes 24'

WORK EXPERIENCES

Software Engineering Intern / Researcher | National Renewable Energy Laboratory

May '23 – Aug '24

- ❖ Spearheaded the expansion of the building attributes dataset for the City of Chattanooga, utilizing **OpenStreetMap API** and Python libraries, reducing building data management time by **40%** and cutting operational costs by the same margin.
- ❖ Modeled the effects of tree canopy coverage and urban heat islands on building energy consumption, leading to a projected **15%** decrease in energy emissions through green infrastructure enhancements.
- ❖ Conducted a **comprehensive analysis of solar energy potential**, resulting in actionable recommendations that promoted sustainability and **informed city policies**.

Data Analyst | Goldman Sachs Market Madness

Jan '24 – Apr '24

- ❖ **Led a 5-person data analysis team**, developing an innovative **marketing proposal for Nike's** collaboration with Apple Music, projected to generate **\$400 million** in additional revenue.
- ❖ Leveraged **Scikit-learn** to analyze **10 years** of market collaboration **data**, identifying key patterns that improved decision-making by **30%** in the campaign strategy.
- ❖ Delivered a comprehensive data-driven report that contributed to securing second place in the competition's first round.

Lead Tutor | Khan Academy x Howard University

Feb '23 – Current

- ❖ Selected as **1 of 7 top tutors out of 30+** candidates to **lead College Algebra classes** for over **30** high school students, consistently improving test scores by **15%** on average.
- ❖ **Implemented custom lesson** plans and facilitated weekly office hours, achieving a **100%** satisfaction rate among students through clear explanations and dedicated support.

KEY PROJECTS

GeoBuildInfo | Discover Building Information by Coordinates

May '23 – Aug '24

- ❖ Designed a **geospatial data solution** using **Geopy, Pandas, NumPy**, and OpenStreetMap API to extract detailed building information based on latitude and longitude from **5,000+** data points.
- ❖ Implemented a **Unique Building Identifier (UBID)** system that decreased **data merging** time by **70%**, optimizing building management processes for large datasets.
- ❖ Enabled CSV output and seamless integration with **3+** visualization tools, providing flexible, **real-time decision-making** support for stakeholders.

Flixster | Personal movies & TV shows recommendation app

Aug '23 – Dec '23

- ❖ Developed a **full-stack app** in **Kotlin** with a **Spring Boot backend** and **RESTful API integration**, serving over **50,000 titles** via the **Movie Database API**.
- ❖ Built an intuitive **UI** with **infinite scrolling**, detailed descriptions, and posters, leading to a **30% increase in user retention**.
- ❖ Deployed using **Docker** on **AWS EC2**, reducing load times by **20%** through optimized data retrieval and **caching**.

AWARDS AND ACHIEVEMENTS

- ❖ **HU Capstone, Howard University:** Awarded a **merit scholarship** totaling over **\$100,000**.
- ❖ **Amazon AWS Deep racer (Third Place):** Showcased **machine learning** and **autonomous systems** expertise.
- ❖ **School House Captain:** Led **500+ students** while organizing activities, **managing resources** and communication.