

# Aryan Miriyala

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## EDUCATION

### Bowling Green State University

*Master of Science in Computer Science GPA: 4.00*

Bowling Green, OH

Aug. 2024 – May 2026

### Bowling Green State University

*Bachelor of Science in Computer Science GPA: 4.00*

Bowling Green, OH

Jan. 2021 – Apr. 2024

## EXPERIENCE

### Graduate Research Assistant

*Bowling Green State University*

Aug. 2024 – Present

*Bowling Green, OH*

- Led 10 mentors for a spring camp, increasing cybersecurity awareness for 20+ middle school students.
- Developed key management and cryptography material for OCRI, benefiting undergraduate students.
- Created 10+ labs using Kali Linux and Azure for PKI, key recovery, and penetration testing.
- Implemented cipher and secret sharing modules, boosting student problem-solving by 30%.

### Software Engineering Intern

*American Association of Insurance Services*

May 2023 – May 2024

*Lisle, IL*

- Championed JSON structuring, JavaScript transformation, and AWS data optimization, achieving an 80% efficiency boost for the openIDL project.
- Used SQL/PostgreSQL and Python for automated data migration, increasing spreadsheet preparation efficiency by 120%.
- Collaborated with two developers to enhance data accessibility by 50% through optimized ETL processes.
- Modernized AAISDirect using React, JavaScript, Material UI, and Figma, resulting in 40% faster transactions and 50% higher client satisfaction.

### Software Engineering Intern

*Alliance for Paired Kidney Donation*

May 2022 – Aug. 2022

*Toledo, OH*

- Enhanced kidney-matching software by resolving 20 bugs and integrating Bootstrap, achieving a 30% performance boost.
- Redesigned interface elements with Bootstrap and JavaScript, increasing web app engagement by 40% and user satisfaction.
- Optimized development and deployment using Lucee, PostgreSQL, and Docker on AWS Cloud9, leveraging cloud services effectively.
- Bolstered web app security with anti-CSRF tokens, preventing unauthorized access and ensuring data integrity.

## PROJECTS

### RocketGrades | *Angular, Node.js, Mistral AI, MongoDB, AWS S3, Auth0, TailwindCSS*

Mar. 2025

- Developed a web-based LMS with Mistral AI for instant assignment feedback, cutting grading time and enhancing student learning.
- Implemented Auth0 for secure, role-based access control, protecting data privacy for users.
- Integrated AWS S3 and MongoDB Atlas for scalable file storage and seamless data retrieval.
- Automated assignment grading and feedback using LangChain with Mistral AI, reducing professor workload.

### Reinforcement Learning - Super Mario | *Python, PPO, DDQN, Tensorflow, PyTorch*

Jan. 2024 - May 2024

- Developed a reinforcement learning model using PPO and DDQN algorithms, achieving 90% completion within 200,000 steps.
- Optimized environment and reward functions to accelerate training and enhance performance.
- Visualized training progress and agent behavior using Jupyter Notebook for performance analysis.

## TECHNICAL SKILLS

**Programming Languages:** C++, C, C#, JavaScript, PHP, Java, Python, TypeScript, SQL, PostgreSQL, Oracle  
**Frameworks & Libraries:** React, Angular, React Native, Ionic, Material UI, Daisy UI, Tailwind, Node.js, Flutter, pandas, NumPy, Matplotlib

**Developer Tools & Platforms:** Git, Docker, VS Code, Visual Studio, , IntelliJ

**Databases & Big Data:** MongoDB, MySQL, PostgreSQL, Oracle, MapReduce, HDFS, Spark, Pig, Hive