

# Aryan Miriyala

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## EDUCATION

<b>Bowling Green State University</b> <i>Master of Science in Computer Science GPA: 4.00</i>	Bowling Green, OH Aug. 2024 – May 2026
<b>Bowling Green State University</b> <i>Bachelor of Science in Computer Science GPA: 4.00</i>	Bowling Green, OH Jan. 2021 – Apr. 2024

## EXPERIENCE

<b>Graduate Research Assistant</b> <i>Bowling Green State University</i> <ul style="list-style-type: none"><li>Led 10 mentors for a spring camp, increasing cybersecurity awareness for 20+ middle school students.</li><li>Developed key management and cryptography material for OCRI, benefiting undergraduate students.</li><li>Created 10+ labs using Kali Linux and Azure for PKI, key recovery, and penetration testing.</li><li>Implemented cipher and secret sharing modules, boosting student problem-solving by 30%.</li></ul>	Aug. 2024 – Present <i>Bowling Green, OH</i>
<b>Software Engineering Intern</b> <i>American Association of Insurance Services</i> <ul style="list-style-type: none"><li>Championed JSON structuring, JavaScript transformation, and AWS data optimization, achieving an 80% efficiency boost for the openIDL project.</li><li>Used SQL/PostgreSQL and Python for automated data migration, increasing spreadsheet preparation efficiency by 120%.</li><li>Collaborated with two developers to enhance data accessibility by 50% through optimized ETL processes.</li><li>Modernized AAISDirect using React, JavaScript, Material UI, and Figma, resulting in 40% faster transactions and 50% higher client satisfaction.</li></ul>	May 2023 – May 2024 <i>Lisle, IL</i>
<b>Software Engineering Intern</b> <i>Alliance for Paired Kidney Donation</i> <ul style="list-style-type: none"><li>Enhanced kidney-matching software by resolving 20 bugs and integrating Bootstrap, achieving a 30% performance boost.</li><li>Redesigned interface elements with Bootstrap and JavaScript, increasing web app engagement by 40% and user satisfaction.</li><li>Optimized development and deployment using Lucee, PostgreSQL, and Docker on AWS Cloud9, leveraging cloud services effectively.</li><li>Bolstered web app security with anti-CSRF tokens, preventing unauthorized access and ensuring data integrity.</li></ul>	May 2022 – Aug. 2022 <i>Toledo, OH</i>

## PROJECTS

<b>RocketGrades</b>   <i>Angular, Node.js, Mistral AI, MongoDB, AWS S3, Auth0, TailwindCSS</i> <ul style="list-style-type: none"><li>Developed a web-based LMS with Mistral AI for instant assignment feedback, cutting grading time and enhancing student learning.</li><li>Implemented Auth0 for secure, role-based access control, protecting data privacy for users.</li><li>Integrated AWS S3 and MongoDB Atlas for scalable file storage and seamless data retrieval.</li><li>Automated assignment grading and feedback using LangChain with Mistral AI, reducing professor workload.</li></ul>	Mar. 2025
<b>Reinforcement Learning - Super Mario</b>   <i>Python, PPO, DDQN, Tensorflow, PyTorch</i> <ul style="list-style-type: none"><li>Developed a reinforcement learning model using PPO and DDQN algorithms, achieving 90% completion within 200,000 steps.</li><li>Optimized environment and reward functions to accelerate training and enhance performance.</li><li>Visualized training progress and agent behavior using Jupyter Notebook for performance analysis.</li></ul>	Jan. 2024 - May 2024

## 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