

# Shanmukha Bhargav Bhamidipati

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<https://shanmukhabhargavbhamidipati.github.io/Portfolio/>

## EDUCATION

**Florida Atlantic University**– Boca Raton, FL

May 2025

**Master's in Computer Science, Minor in Artificial Intelligence, GPA: 3.86**

- Relevant coursework: Introduction to Data Science, Software Engineering, Analysis of Algorithms, Natural Language Processing, Information Retrieval, Artificial Intelligence, Data Mining and Machine Learning, CodePath Intermediate Data Structures, Cloud Computing, Cloud Security.

## SKILLS

- **Languages:** C, C#, Python, Java, JavaScript, R, HTML, CSS, TypeScript
- **Tools:** Jupyter, Github, PyCharm, Kaggle, PowerBI, RestAPI, Docker, Jenkins
- **Libraries:** Numpy, Pandas, Keras, TensorFlow, Scikit-learn, Matplotlib, Seaborn, PyTorch
- **Frameworks:** Node.js, React, Angular, SpringBoot, Spring, .NET Core

## EXPERIENCE

**IT / Data Management Intern - H.U.G Reading Program**

February 2025 – May 2025

- Developed scripts using Excel and Google Apps Script for automating data collection, validation, and transformation; maintained structured data repositories to ensure data quality and accessibility.
- Contributed to internal reporting and visualization tools; gained hands-on experience with AWS, Salesforce, and scalable system design.
- Practiced agile workflows, version control, and remote collaboration while enhancing debugging, documentation, and problem-solving skills.

**Associate Software Engineer - Hexaware Technologies**

February 2022 – September 2023

- Collaborated with a team of 4+ backend developers to design and integrate 15+ RESTful APIs, enhancing interoperability and reducing integration issues by 30%.
- Conducted 50+ code reviews and resolved 50+ bugs, increasing application stability and reducing production errors by 40% over 6 months.
- Participated in 10+ requirement gathering sessions with cross-functional teams; proposed and implemented 8+ technical solutions aligned with business goals and reduced development time by 20%.

## PROJECTS

**Real-Time Dubbing Enhancement with Wav2Lip – ML Engineer | Team of 3**

- Implemented the Wav2Lip architecture to synchronize lip movements with dubbed audio, significantly improving visual-audio alignment in video content.
- Led model training and optimization efforts, boosting synchronization accuracy by 35% on multilingual datasets.
- **Utilized Languages:** Python, Shell
- **Utilized Tools/Frameworks:** PyTorch, FFmpeg, OpenCV, CUDA, Google Colab

**Internal Application Performance Optimisation – Full Stack Developer | Team of 6**

- Enhanced internal enterprise applications by optimizing backend APIs and modernizing frontend interfaces using MEAN and MERN stacks, resulting in a 40% improvement in application response time and reduced system load by 30%.
- Utilized Languages: JavaScript, TypeScript, Node.js, Python
- Utilized Tools/Technologies: MongoDB, Express.js, Angular, React, Docker, Jenkins

## CERTIFICATIONS

- Advanced Technical Interview Preparation, Codepath
- Microsoft Azure Fundamentals, AZ-900

May 2025

February 2023