

# ATHULYA GANESH

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## EDUCATION

**University of Cincinnati**  
Master of Engineering in Computer Science

Expected Graduation: Dec. 2024  
GPA: 4.0 / 4.0

**University of Cincinnati**  
Bachelor of Science in Computer Science

Aug. 2019 – May. 2024  
GPA: 3.9 / 4.0

## EXPERIENCE

**Illinois Tool Works (ITW)**  
Software Engineer I

Jun. 2024 – Present  
Troy, OH

- Built **full-stack** features using **JavaScript**, **NodeJS**, **GraphQL**, **SQLite**, creating an 18% speed increase in Walmart's weighing system.
- Envisioned optimization of **Python scripts** to reduce data retrieval time by 30%, accelerating weighing and boosting revenue by \$50k.
- Collaborated directly with clients to deliver features 9% ahead of schedule, **enhancing relationships** with large accounts like Costco.

**Nokia**  
Software Engineer Intern

May 2023 – Aug. 2023  
Westford, MA

- Generated a **Java web application**, enhancing system performance by 20% through optimized code and efficient **database integration**.
- Implemented **backend services** and **Python** scripts, and tested with **Docker** for containerization, reducing monthly bug reports by 20%.
- Teamed with cross-functional experts to **integrate Java applications**, cutting integration time by 2 weeks, enhancing project efficiency.

**FOX Sports**  
Front-End Software Engineer Intern

May 2022 – Aug. 2022  
Cincinnati, OH

- Developed interactive features using **JavaScript**, specific to the live World Cup match scoring, garnering 93% positive user reviews.
- Optimized **user interface** for 20+ pages using **JSON tests**, greatly improving **user experience**, increasing conversion rates by 20.4%.
- Facilitated stand-ups as interim **Agile** project manager, enhancing collaboration by aligning tasks with skills and optimizing delegation.

**Infinera**  
Software Engineer Intern

Aug. 2021 – Dec. 2021  
San Jose, CA

- Engineered a robust ASIC chip health check API in **Python** ensuring performance and stability, improving diagnostic accuracy by 30%.
- Created a **React dashboard** to visualize API results, enabling the team to solve issues faster, handling 2x the volume of cases weekly.
- Authored comprehensive **API documentation**, improving **team communication** and **collaboration**, reducing onboarding time by 17%.

**iCDCU Laboratory**  
Software Engineer Intern

Jan. 2021 – Apr. 2021  
Cincinnati, OH

- Developed a collaboration platform using **Flask**, **Python** and **SQLite**, supporting 35 members in improving file management efficiency.
- Redesigned authentication pages using **Flask** and **Figma**, improving security and user experience, resulting in a seamless login process.
- Collaborated** with stakeholders to gather requirements, **streamlining workflows**, increasing productivity per person by 4 hours/week.

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, SQL

**Database:** MongoDB, SQLite, PostgreSQL, Firebase

**Technologies/Frameworks:** NodeJS, NextJS, ReactJS, JSON, Flask, Firebase, MongoDB, REST API, GraphQL

**Developer Tools:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Azure, Docker, Linux, Agile, Github, Visual Studio Code

**Certifications:** AZ-900 Azure Cloud Certification

## PROJECTS

visit [athulyaganesh.com](https://athulyaganesh.com) or [github.com/athulyaganesh](https://github.com/athulyaganesh) for more

**SightStep: Karaoke Game Application** | ReactJS, JavaScript, NodeJS, Flask, Python, Firebase, Figma

May 2024

- Launched a gamified karaoke platform with real-time performance features, gaining 70+ users in 8 hours and boosting physical activity.

**HealthUS: USA Health Data Visualization Application** | JavaScript, D3.js library, Express, Netlify

Jan. 2024

- Designed a health metric tool with customizable graphs, enabling comparison of 10 attributes and boosting health awareness by 30%.

**LeetTrack: Leetcode Tracker at HackHarvard** | ReactJS, JavaScript, Yarn, REST API, Vercel, Firebase

Nov. 2023

- Developed a Leetcode tracker, enhancing tracking efficiency, increasing weekly solved questions by 9% and managing 50+ questions.

**HomeTransactions: Azure Cloud-based Web Application** | Flask, Dash library, Python, SQL, Azure

Aug. 2023

- Invented a web application with spending data from 1M+ families, featuring visualization and authentication, elevating financial skills.

## LEADERSHIP / EXTRACURRICULAR

**University of Cincinnati**

Aug. 2019 – Present

- Part Time Research, *MEMS and Microsystems Lab*
- Herman Schneider Co-op Award Nominee
- Resident Advisor
- Engineering Student Leader, *Engineering College*
- Technical President, *Engineering Tribunal*
- National Co-op Ambassador