

# ATHULYA GANESH

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## EDUCATION

### University of Cincinnati

Master of Engineering in Computer Science, GPA: 4.0 / 4.0

Aug. 2023 – Dec. 2024  
Cincinnati, OH

### University of Cincinnati

Bachelor of Science in Computer Science (Summa Cum Laude, Distinguished Honors Scholar)

Aug. 2019 – May. 2024  
Cincinnati, OH

## EXPERIENCE

### Illinois Tool Works (ITW) - Food Equipment Group

Software Engineer (Weigh/Wrap Division)

Jun. 2024 – Present  
Troy, OH

- Implemented **full-stack** features using **C++**, **JavaScript**, **QML** and **SQL**, reducing processing time by 25% for clients like Walmart.
- Envisioned and **optimized Python scripts** to reduce data retrieval time by 30%, accelerating weighing and boosting revenue by \$50k.
- Aligned closely with clients to deliver unique features 9% ahead of schedule, **enhancing relationships** with key 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 (FIFA World Cup 2022)

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 3 authentication pages with **Figma** and **Flask**, enhancing security and **UI/UX**, thus reducing login time by an average of 2s.
- Collaborated** with stakeholders to gather requirements, **streamlining workflows**, increasing productivity per person by 4 hours/week.

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, HTML5, CSS (Vanilla and Tailwind), JavaScript, SQL

**Database:** MongoDB, SQLite, PostgreSQL

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

**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