

Nathan Fletcher

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3140 N Drake Ave, Chicago, IL, 60618

SUMMARY

Quality-focused **Software Engineer** with experience in **automation** and **systems verification**. Proven track record of **developing and implementing automated testing solutions** across web and embedded applications, with particular expertise in audio and radio systems.

EXPERIENCE

Engineer I

Shure Incorporated | Niles, IL | July 2023 – Present

- Created **strategically optimized test cases** for embedded audio devices that **achieved over 95% requirements coverage** while **minimizing execution time** through efficient testing methodologies
- Led complex defect investigations through systematic analysis, providing developers with detailed reproduction steps, actionable insights, and targeted recommendations to accelerate issue resolution
- Designed automated stress test cases that **saved over 120 work hours a month** and enabled testing of high-load conditions difficult or impossible to replicate manually
- Implemented risk-based testing strategies to prioritize high-impact features, ensuring efficient resource allocation across testing cycles

Web Development Intern

ReviewRamp | Atlanta, GA | June 2021 – December 2021

- Established and maintained staging environment, improving release reliability
- **Built and maintained CI/CD pipelines** across development and production environments using aws

QA Automation Engineer Intern

Encyclopaedia Britannica | Chicago, IL | May 2022 – April 2023

- Planned and developed automated test cases for an educational web app, **maintaining over 90% automated test coverage** throughout the duration of the pre-release phases
- **Integrated automated test cases with a CI/CD pipeline**, ensuring only passing builds could be deployed

Computer Science Tutor

Loyola University Chicago | Chicago, IL | January 2022 – April 2023

- Provided one-on-one tutoring in **data structures, algorithms, and object-oriented programming**
- **Led debugging sessions** that strengthened students' problem-solving abilities and coding fundamentals
- Created visual explanations of CS concepts like recursion and binary trees, improving student comprehension

EDUCATION

B.S. in Software Engineering, B.A. in Visual Communications

Loyola University Chicago | Chicago, IL | August 2019 – May 2023

- Magna Cum Laude
- **1st in Class**
- Turing High Achievement Award

AWARDS

Turing High Achievement Award

Loyola University Chicago | May 2023

- Given to the **top graduating student** in each specialization area within computer science.

SKILLS

Algorithm Design, Android Development, Apache, Assembly (ARM), AWS, C, C++, C#, CI/CD, CSS, Database Management, Django, Embedded Systems, GCP, HTML, Java, Javascript, Linux, .NET, Nginx, PHP, Python, React, React Native, RESTful APIs, Server Management, SQL