

Noah Park

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SKILLS

- Python, C, C++, JavaScript, TypeScript, Java, C#, SQL, NoSQL, Angular, React, PHP, Git, Linux, HTML/CSS

WORK EXPERIENCE

Shure Incorporated

May 2024 - September 2024

Software Engineering Intern, Automated Test

Niles, IL

- Spearheaded the overhaul of the Automated Test Department's data management website, transitioning the codebase to a **Typescript** and **Angular** frontend with **PHP** backend
- Redesigned the API and authentication system connecting the website to over 20 **Microsoft SQL Server** internal databases, doubling access speeds with fewer query requests and improving security with **JSON Web Tokens**
- Configured testing software as part of efforts to standardize over 100 racks across the department's 7 branches

Shure Incorporated

May 2023 - September 2023

Software Engineering Intern, Automated Test

Niles, IL

- Delivered critical bug fixes, process optimizations, and multithreaded enhancements in **C#** for the Automated Test Department's **.NET** application to provide operators who use the software to verify the functionality of Shure's audio products with a more streamlined and productive experience
- Analyzed and deployed solutions with 5 operators and associates of Shure's manufacturing facilities in Suzhou, China and Juarez, Mexico to improve user experience of testing tools for non-English speaking users

Johns Hopkins Department of Computer Science

August 2024 - January 2025

Course Assistant

Baltimore, MD

- Assisted in the Parallel Computing for Data Science course, covering parallelism across levels of hardware, by hosting office hours for over 50 students and refining the curriculum under department head Randal Burns

EDUCATION

Johns Hopkins University (M.S.E. in Computer Science)

Expected December 2025

- Relevant Courses: Compilers and Interpreters, Artificial Intelligence, Computer Vision, Software System Design, Object-Oriented Software Engineering, Software-Defined Networks

Baltimore, MD

Johns Hopkins University (B.S. in Computer Science)

Conferred May 2025

- Current GPA: 3.79 of 4.00, Dean's List
- Relevant Courses: Computer Networks (TCP/IP), Parallel Computing, Full-Stack JavaScript (React/NestJS), Algorithms, Computer Systems (C/C++/x86 Assembly), Data Structures, Intermediate Programming (C/C++)

Baltimore, MD

PROJECTS

Quest2Learn

May 2022 - January 2023

- Built interactive labs in an AR setting through **Unity3D**, **Vuforia**, and **C#** to complement natural sciences courses
- Led the AR development team of 7 members and assigned tasks to teammates in preparation for a collaboration with the Chinese University of Hong Kong to introduce students to the team's latest interactive lab
- Featured on The Johns Hopkins News-Letter and awarded \$50,000 through the Hopkins Digital Education and Learning Technology Award

C to x86-64 Compiler

October 2024 - January 2025

- Engineered a semantic analyzer and code generator in **C++** that compiles a C-like programming language into x86-64 assembly instructions
- Implemented supplementary optimizations to the compiled code such as local register allocation that improved performance by decreasing runtimes by at least 60% and removing over 10% of redundant instructions

Ethernet Router

March 2024 - April 2024

- Created a router in **C** that handled IP and ARP packets in the form of ethernet frames, through Linux commands
- Ensured robust and error-free packet processing with a supplementary ARP packet cache manager