

NICHOLAS MICHUDA

Software Engineer - Early Career

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Friendly and flexible software engineer with expertise in Java, JavaScript, and C++, and experience in full-stack development. Skilled in creating RESTful APIs and mobile-first applications. Background in Electrical Engineering with strong problem-solving and communication abilities.

Work Experience

Software Engineer Trainee

Thinkful Online

Jun 2023 - Jan 2024

- Learned industry best practices and software development standards for several programming languages with an emphasis on JavaScript, HTML5, CSS, React Native, and Node.js. Utilized Git and GitHub for version control and collaborative development across distributed teams.
- Created RESTful APIs using Node.js to facilitate data retrieval.
- Developed a strong foundation in core principles of application development, including best practices in coding, testing, and deployment.

R&D Engineer

Emcore Corporation | Tinley Park

Aug 2022 - Jul 2023

- Successfully debugged and repaired failing electrical hardware, resulting in a significant reduction in manufacturing fallout, directly leading to company savings. Collaborated with a mechanical engineering team to develop innovative circuit boards and cables, contributing to the enhancement of product performance.
- Spearheaded the development of test fixtures for next-generation fiber optic gyroscopes in collaboration with a cross-functional team, ensuring accuracy and reliability in product testing. Directly interacted with customers to insure proper installation of test fixtures.
- Worked as part of a cross-functional Scrum team, applying agile methodologies to drive innovation and improve the development and testing of next-generation fiber optic gyroscopes.

Electrical Engineer

KVH Industries | Tinley Park

Jun 2020 - Aug 2022

- Designed intricate schematics and layouts for multi-layer circuit boards using Altium Designer, leading to improved efficiency in manufacturing processes.
- Provided comprehensive circuit board manufacturing data to board fabrication houses, ensuring seamless production and timely delivery.
- Led design and fabrication initiatives for printed circuit boards utilized in testing and debugging new designs, contributing to the successful launch of various new products.

Projects

Recipe Sharing Application

Aug 2024 - Aug 2024

Collaborated via GitHub with small team to create a full stack application that allowed users to store, create, discover, and share recipes.

Backend Technologies : Java, Spring Boot, Spring MVC, Maven, AWS, SQL, JUnit

Frontend Technologies: Javascript, React, Bootstrap, CSS, HTML, Greensock Animations

Library Application

Aug 2024 - Present

Created a full stack book tracking application that allowed users to find books, add them to reading lists, and mark their status (read, reading, not started).

Backend: Java, Spring Boot, Spring MVC, Spring Security, Maven, AWS RDS, MySQL, JUnit

Frontend: JavaScript, React, Bootstrap, CSS, HTML

Core Skills

Software Skills: JavaScript, Python, C/C++, ReactJS,HTML,CSS,Node.js, Mocha, Spring Boot, Spring MVC, Spring Security, JUnit, Chai, Git, GitHub, Node Package Manager, Automated Testing, Java, Altium Designer, MATLAB, LTspice, Kotlin, Docker, AWS RDS, AWS EC2, Ruby

Education

Vanderbilt University

Aug 2016 - May 2020

B.S. Electrical Engineering

Certificates

Computer Science

Feb 2024

Thinkful

Java Fundamentals

Aug 2024

HTD Talent