

# Miller Boyd

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Dear Hiring Manager,

I am writing to express my enthusiasm for software engineering opportunities within your organization. With a Bachelor's degree in Computer Science from Southern Methodist University, a Full Stack Web Development certificate from UCF, and extensive hands-on experience developing innovative applications, I am confident in my ability to contribute effectively to your team. I have consistently taken on leadership roles in my projects and am eager to grow further as a developer, with a long-term goal of advancing into Software Architecture to help shape the future of data flow and application design.

Throughout my academic and professional journey, I've built a strong foundation in programming languages and tools, including Java, C++, Python, React, NodeJS, MySQL, and MongoDB. My passion for problem-solving and innovation has driven me to tackle challenging projects that deliver real-world impact. I am particularly fascinated by APIs and the architecture of data flow across networks, a theme central to many of my projects. My experience with RESTful APIs and understanding of REST principles have enabled me to develop efficient, scalable systems. Recently, I integrated WebSockets into my AI video presentation project, further enhancing real-time data interaction and pushing the boundaries of modern web applications.

One of my most significant projects involved developing a full-stack application for Lockheed Martin to detect weld flaws in X-ray images using a Convolutional Neural Network (CNN). This project reduced manual flaw detection time from 10 minutes to mere seconds, significantly enhancing operational efficiency. It also allowed me to refine my skills in both front-end and back-end development, utilizing React for the UI and Electron for desktop deployment. The success of this project was driven by my commitment to Agile methodologies and effective project management with Jira.

Additionally, I developed a proof-of-concept full-stack iOS app for the Dallas Zoo that captures audio and identifies animals using machine learning. This project leveraged PyTorch for machine learning, Turi for the backend, and Swift for the frontend, highlighting my ability to integrate advanced technologies to create functional and user-friendly solutions.

I am particularly excited about the opportunity to apply my background in full-stack development, machine learning, and UI design to create innovative products that drive meaningful impact. I am eager to contribute to projects that align with my passion for technology and my aspiration to make it more accessible and useful to everyone.

Thank you for considering my application. I look forward to the possibility of discussing how my skills and experiences align with the needs of your team. Please feel free to contact me at (972) 989-3778 or via email at [mjboyd@smu.edu](mailto:mjboyd@smu.edu) for any inquiries.

Sincerely,

Miller Boyd