

COVER LETTER

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Hiring Manager
Connect

Dear Hiring Manager,

I am writing to express my enthusiastic interest in the Software Engineering Intern position with Connect, listed on the SKIP Summer Program. As a Master's student in Computer Science at Washington University in St. Louis with a strong background in full-stack development, AI/ML, and a passion for leveraging technology for education, I am confident that my skills align well with Connect's mission to empower high school students.

The opportunity to contribute to a platform designed to bridge the gap between students, educators, and industry professionals excites me. My experience developing interactive, user-focused applications demonstrates my readiness to build and optimize features for the Connect platform. For instance, my project developing an Interactive Storybook utilized Vue.js, Node.js, and MongoDB - a stack comparable in principle to Next.js and Supabase - incorporating AI (OpenAI API) for dynamic content generation and focusing heavily on creating an intuitive user experience for navigating complex narratives. Furthermore, my Socket.IO Multi-Room Chat Application project provided hands-on experience with real-time, event-based communication, user management, and persistent data storage, skills directly applicable to managing student networking features and utilizing backend services like Supabase effectively.

My technical skills extend to AI and data analysis, as highlighted by my research predicting Alzheimer's Disease using deep learning (TensorFlow/Keras) and machine learning (Scikit-learn), and optimizing datacenter cooling using Reinforcement Learning, achieving a 35.8% energy efficiency improvement in simulations. Additionally, my internship experience involved engineering software with React and AWS, and delivering a 20% cost reduction through data-driven insights, showcasing my ability to deliver tangible results. While my direct experience is with AWS, React, and MongoDB/MySQL, I am a fast learner eager to master Next.js, Vercel, and Supabase to contribute effectively to your tech stack.

My background includes collaborating with diverse groups through roles like Graduate Assistant supporting first-gen students and CS Lab Assistant tutoring peers, preparing me to engage effectively with educators and students as required by the role. I thrive in dynamic environments and am eager to gain hands-on startup experience at a revenue-generating company like Connect, contributing to a product with proven demand.

Thank you for considering my application. I am available for an interview to discuss how my skills in software development, AI, and collaborative problem-solving can benefit Connect at your earliest convenience.

Sincerely,

Aadarsha Gopala Reddy