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Dear Hiring Manager,

My name is Soham Jindal, and I am a Computer Engineering student at Purdue University graduating in May 2026 with a concentration in AI and machine learning. I am seeking a Software Engineering internship where I can contribute to building reliable, well designed systems while continuing to grow as an engineer. I enjoy work that involves both problem solving and careful implementation, especially when the goal is to make software that others can depend on.

Through Purdue's Data Mine in collaboration with L3Harris, I have worked on building modular Python components and reproducible telemetry processing pipelines in a Linux environment. My work included creating feature generation and quality checks, evaluating detection approaches using metrics such as precision, recall, and ROC AUC, and using virtualized lab setups to simulate realistic network behavior. This experience taught me to focus not just on getting something to work, but on making it maintainable, testable, and easy for others to use.

I have also gained experience in product focused engineering roles. As a software engineering intern, I contributed to web development and supported mobile projects, and as a cofounder and application developer at a startup, I helped build Android and iOS applications using Kotlin and Swift. I worked on production features such as payments, notifications, and analytics, improved app stability through testing and refactoring, and collaborated in an Agile team through sprint planning and code reviews. These experiences helped me understand how good engineering practices directly affect user experience and long term product quality.

I am comfortable working in Python, Java, and C or C++, and I am particularly interested in backend and ML adjacent roles where performance, correctness, and scalability are important. I would welcome the opportunity to contribute to your team and to learn from experienced engineers in a fast paced environment. Thank you very much for your time and consideration, and I look forward to the possibility of discussing my application further.

Sincerely,  
Soham Jindal