

James Koh

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Education	Bachelor of Science, Computer Science and Software Engineering (Double Major) <i>Rose-Hulman Institute of Technology, Terre Haute, IN</i>	May 2024 3.74/4.0 GPA
Skills	Languages: Java, JavaScript, Python, SQL, CSS, HTML, Typescript, C#, C++, C Libraries/Frameworks: ReactJS, LangChain, ASP.NET, Ruby on Rails, Bootstrap, Redis, Firebase Tools: Git, Docker, Node.js, MongoDB, Neo4j, CouchDB, PostgreSQL, FastAPI, RabbitMQ	
Experience	<i>Rose-Hulman Institute of Technology – Post Bac Researcher – Indiana</i>	July 2024 – Present
	<ul style="list-style-type: none">Developed a Python video pipeline to analyze verbal and non-verbal features, utilizing scikit-learn regression models to predict authenticity scoresConducted in-depth literature reviews to enhance understanding and ensure contextual relevance when refining materials	
	<i>Drophouse Gen AI – Software Engineer – Illinois</i>	Oct – Dec 2024
	<ul style="list-style-type: none">Designed and implemented a React guest login system, leveraging cookies for user access managementDiagnosed and resolved critical software issues, improving system performance and reliability by 30%	
	<i>Rose-Hulman Ventures – Software Engineer Intern – Indiana</i>	May – Aug 2023
Projects	<ul style="list-style-type: none">Developed features for a finance web application used by counties across IndianaImplemented React and Typescript components, enhancing application functionality by 20%Managed server-side operations with C# and SQL Server, optimizing data handlingLed database schema design for new employee hiring system	
	<i>Republic Polytechnic – Software Engineer Intern – Singapore</i>	May – Aug 2022
	<ul style="list-style-type: none">Developed a REST API using Jakarta EE and OneMap API for last-mile delivery planningImplemented API security verification with JWT authenticationOptimized work pipelines by training company staff in automated web task development, improving efficiency by 20%	
	<i>Rikishi Restaurant Website</i>	Jan – Mar 2025
	<ul style="list-style-type: none">Designed and developed a responsive, SEO-optimized static website using Figma, HTML, CSS and JavaScriptIntegrated Google Analytics to track user behavior, leading to a 15% increase in engagement	
	<i>Capstone: Gwen’s Cookbook</i>	Aug 2023 – May 2024
	<ul style="list-style-type: none">Collected feature requirements and client feedback, creating mock-ups in FigmaDeveloped a full-stack recipe application from scratch using React and Ruby on RailsConducted UI and backend testing, reducing bugs by 30%Managed client relations and organized feature documentation	
	<i>Personal Conversation Chatbot</i>	Nov 2023 – Feb 2024
	<ul style="list-style-type: none">Developed an LLM chatbot capable of conversing in Singlish with colloquial languageImplemented LangChain’s chaining, memory and document retrieval for dynamic interactionsAchieved ~80% linguistic accuracy based on qualitative evaluation	