

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 Ventures – Software Engineer Intern – Indiana</i>	May – Aug 2023
	<ul style="list-style-type: none">Developed features for financing web application used by counties across IndianaImplemented components in React and Typescript to enhance application functionality by ~20%Handled server-side operations with SQL Server database in C#Piloted database schema design for new employee hire 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 security verification of API with JWTStreamlined work pipelines by ~20% through supporting company training in the development of automated web tasks	
Projects	<i>Capstone: Gwen's Cookbook</i>	Aug 2023 – May 2024
	<ul style="list-style-type: none">Gathered feature requirements and feedback from interactions with clientDeveloped full-stack recipe application from scratch using React and Ruby on RailsUtilized PostgreSQL database to store recipe and user informationPerformed UI and backend testing to reduce bugs by ~30%Led client relations and organization of feature documentation	
	<i>Personal Conversation Chatbot</i>	Nov 2023 – Feb 2024
	<ul style="list-style-type: none">Implemented a LLM chatbot that adopts colloquial language to converse in SinglishUtilized chaining, memory and document retrieval for dynamic interactionsAchieved linguistic accuracy of ~80% on a qualitative scaleSpearheaded use of LangChain and delegation of research efforts on LLM models	
	<i>Online Scheduler Web Application</i>	Aug 2021 – Sep 2021
	<ul style="list-style-type: none">Designed UI from scratch using Figma to reduce development time by ~40%Created a calendar integrated with a to-do list feature using HTML, CSS, JavaScript, and Bootstrap FrameworkApplied RESTful APIs for different themes of the application to increase user engagement by ~10%Deployed Firebase and RoseFire authentication with Firestore for user login and data storage	
Activities	Society of Asian Scientists & Engineers (SASE)	
	<i>Secretary, Social & Cultural Chair</i>	Aug 2021 – May 2024
	<ul style="list-style-type: none">Managed database of 130 members and prepared club administrative items for weekly meetingsSupervised 4 major cultural and diversity events and promoted social media platforms	