

# James Koh

kohji@rose-hulman.edu | (812) 223-0510 | <https://github.com/rhit-kohji>

<b>Education</b>	<b>Bachelor of Science, Computer Science and Software Engineering (Double Major)</b> <i>Rose-Hulman Institute of Technology, Terre Haute, IN</i>	<b>May 2024</b> <b>3.74/4.0 GPA</b>
<b>Skills</b>	<b>Languages:</b> Java, JavaScript, Python, SQL, CSS, HTML, Typescript, C#, C++, C <b>Libraries/Frameworks:</b> ReactJS, LangChain, ASP.NET, Ruby on Rails, Bootstrap, Redis, Firebase <b>Tools:</b> Git, Docker, Node.js, MongoDB, Neo4j, CouchDB, PostgreSQL, FastAPI, RabbitMQ	
<b>Experience</b>	<i>Rose-Hulman Institute of Technology – Post Bac Researcher – Indiana</i>	July – Present
	<ul style="list-style-type: none"><li>Developed a video pipeline to analyze verbal and non-verbal features while using regression models to predict authenticity scores</li><li>Conducted comprehensive literature reviews to ensure thorough understanding and contextual relevance when editing materials</li></ul>	
	<i>Drophouse Gen AI – Software Engineer – Illinois</i>	Oct – Dec 2024
	<ul style="list-style-type: none"><li>Designed and implemented a guest login system using cookies to manage user access</li><li>Identified and resolved critical software issues that improved system performance and reliability by 30%</li></ul>	
	<i>Rose-Hulman Ventures – Software Engineer Intern – Indiana</i>	May – Aug 2023
<b>Projects</b>	<ul style="list-style-type: none"><li>Developed features for financing web application used by counties across Indiana</li><li>Implemented components in React and Typescript to enhance application functionality by 20%</li><li>Handled server-side operations with SQL Server database in C#</li><li>Piloted database schema design for new employee hire system</li></ul>	
	<i>Republic Polytechnic – Software Engineer Intern – Singapore</i>	May – Aug 2022
	<ul style="list-style-type: none"><li>Developed a REST API using Jakarta EE and OneMap API for last-mile delivery planning</li><li>Implemented security verification of API with JWT</li><li>Optimized work pipelines through supporting company training in the development of automated web tasks by 20%</li></ul>	
	<i>Capstone: Gwen's Cookbook</i>	Aug 2023 – May 2024
	<ul style="list-style-type: none"><li>Gathered feature requirements and feedback from interactions with client</li><li>Developed full-stack recipe application from scratch using React and Ruby on Rails</li><li>Performed UI and backend testing to reduce bugs by 30%</li><li>Led client relations and organization of feature documentation</li></ul>	
<b>Activities</b>	<i>Personal Conversation Chatbot</i>	Nov 2023 – Feb 2024
	<ul style="list-style-type: none"><li>Implemented a LLM chatbot that adopts colloquial language to converse in Singlish</li><li>Utilized chaining, memory and document retrieval for dynamic interactions</li><li>Achieved linguistic accuracy of ~80% on a qualitative scale</li><li>Spearheaded use of LangChain and delegation of research efforts on LLM models</li></ul>	
	<b>Society of Asian Scientists &amp; Engineers (SASE)</b>	
	<i>Secretary, Social &amp; Cultural Chair</i>	Aug 2021 – May 2024
	<ul style="list-style-type: none"><li>Managed database of 130 members and prepared club administrative items for weekly meetings</li><li>Supervised 4 major cultural and diversity events and promoted social media platforms</li></ul>	