

Joshua S. Brown

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Education	Bachelor of Science Computer Science Rose-Hulman Institute of Technology, Terre Haute, IN Minor: Cybersecurity	May 2025 Major GPA: 3.8
	<i>Awards: Dean's List, The Graham Barrett Computer Science Prize, Technology Service Award</i>	
	Summer Study Abroad Program Institute for American Universities, Barcelona, Spain <i>Skills Developed: Communication, Collaboration, Global Perspectives, Cultural Awareness</i>	Summer 2023 GPA: 4.0
Skills	Python, HTML, CSS, JavaScript, Java, C, Apache Kafka, Scheme, SQL, SysML, Solvers, OR-Tools, Git, GitHub, Jira, Confluence, Agile Development, Scrum Strong Communication, Team Collaboration, Technical Troubleshooting	
Experiences	KBR, Inc , King of Prussia, PA <i>Computer Science Intern</i> <ul style="list-style-type: none">• Integrated solver software with Cameo Systems Modeler to optimize system requirements for a variety of use cases• Led 10 meetings and presentations to fellow interns, managers, and high-level executives• Utilized linear and constraint programming solvers to optimize complex multivariable systems	Summer 2024
	Relay Network , Wayne, PA <i>Software Engineering Intern</i> <ul style="list-style-type: none">• Led Agile Development practices with teammates, held stand-ups and grooming sessions• Managed the Scrum process and created documentation utilizing Jira and Confluence• Developed a program to compute customer metrics using Java and Apache Kafka• Reported metrics in real-time, improving the current reporting of once per day	Summer 2022
	Rose-Hulman Sports & Recreation Center , Terre Haute, IN <i>Supervisor</i> <ul style="list-style-type: none">• Supervised daily operations of the sports and recreation center, ensuring safety protocols and policies were adhered to by staff and patrons• Acted as the primary point of contact for customer inquiries and concerns, enhancing customer satisfaction through prompt and effective communication• Proactively managed last-minute staffing gaps, ensuring consistent coverage and uninterrupted facility operations during peak hours	August 2024 - Present
	Rose-Hulman Institute of Technology , Terre Haute, IN <i>Software Requirements Engineering Teaching Assistant</i> <ul style="list-style-type: none">• Acted as the Client for a large software project, fielding emails from students for requirements gathering• Graded and provided feedback on student exams and assignments	August 2024 - Present
Projects	SQL TV Database Creation and Management <ul style="list-style-type: none">• Led the creation and management of a dynamic SQL database for television content• Developed skills in data architecture, query optimization, and seamless database administration	2023
	Genetic Algorithm Research Project <ul style="list-style-type: none">• Researched the concepts behind evolution and learning in the context of a genetic algorithm• Constructed a fully functional GUI to create and evolve populations of chromosomes• Presented the complex findings to both students and faculty in a clear and engaging manner	2022
Other Projects	Scheme Interpreter, Java Linter, Workout Tracker Web App with Firebase, Accumulator Multicycle Processor, Java Graph Surfing Algorithm, Java Editor Trees Algorithm	
Volunteering	Provide technical consulting and assistance to several animal hospitals and shelters around West Chester, PA	