Joshua S. Brown

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Education	**Bachelor of Science Computer Science**	**May 2025**

Bachelor of Science Computer Science **May 2025**
Rose-Hulman Institute of Technology, Terre Haute, IN **Major GPA: 3.8**
Minor: Cybersecurity

Awards: Dean's List, The Graham Barrett Computer Science Prize, Technology Service Award

Summer Study Abroad Program **Summer 2023**
Institute for American Universities, Barcelona, Spain **GPA: 4.0**
Skills Developed: Communication, Collaboration, Global Perspectives, Cultural Awareness

Skills
Python, HTML, CSS, JavaScript, Java, C, Kafka, SQL, Linux, Kali, React, Git, GitHub, Jira, Confluence, PostgreSQL, SysML, Solvers, Microsoft Office, Agile Development, Scrum
Strong Communication, Team Collaboration, Technical Troubleshooting

Internships

KBR, Inc, King of Prussia, PA **May 2024 – August 2024**
Computer Science Intern
- Integrated solver software with Cameo Systems Modeler to optimize system requirements
- Led 10 meetings and presentations to fellow interns, managers, and high-level executives
- Utilized linear and constraint programming solvers to optimize multivariable systems

Relay Network, Wayne, PA **June 2022 – August 2022**
Software Engineering Intern
- 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

Experiences

Rose-Hulman Sports & Recreation Center, Terre Haute, IN **August 2024 - Present**
Supervisor
- 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

Rose-Hulman Institute of Technology, Terre Haute, IN **August 2024 - Present**
Software Requirements Engineering Teaching Assistant
- 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

Projects

Web-Based Geospatial Image Viewer **September 2024 - Present**
- Developed a web application to visualize geospatial data using GeoServer and PostGIS, enabling efficient centralized storage and retrieval of raster and vector data
- Met regularly with client from John's Hopkins University Applied Physics Laboratory to gather requirements and provide progress updates and demonstrations

Secure and Private Messaging System **February 2024 – May 2024**
- Designed and implemented an encrypted messaging application using RSA encryption algorithms to ensure data confidentiality, integrity and accessibility
- Documented security protocols and best practices, educating stakeholders on encryption and data privacy considerations.

Other Projects
Scheme Interpreter, Java Linter, Workout Tracker Web App with Firebase, Accumulator Multicycle Processor, TV Show Database with SQL, Genetic Algorithm Research Project

Volunteering
Provide technical consulting and assistance to several animal hospitals and shelters around West Chester, PA