

Braeden West

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EDUCATION

Bachelor of Science in Computer Science (Software Engineering) <i>Arizona State University</i>	Aug. 2024 – May 2026 Tempe, AZ
Associate of Arts in Computer Information Systems <i>Grand Rapids Community College</i>	Aug. 2023 – Aug. 2024 Grand Rapids, MI

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Frontend Development, Backend Development, Databases & Storage, Computer & Network Security, Cloud Computing

EXPERIENCE

ASU/NASA Marston Exploration Theater <i>Technical Lead</i>	Sep. 2025 – Present Tempe, AZ
<ul style="list-style-type: none">Led development of immersive 3D educational content for the NASA Psyche mission, improving scientific accessibility for public and academic audiences through visual experiences.Defined project scope, milestones, and team responsibilities, ensuring alignment with sponsor requirements.Collaborated with NASA and university researchers to validate scientific accuracy and incorporate domain expertise into educational content.	
Packsyncr <i>Full Stack Developer</i>	Nov. 2025 – Present Tempe, AZ
<ul style="list-style-type: none">Designed and implemented a full-stack service for collaborative Minecraft resource packs, including a website, backend APIs, cloud storage, and a desktop app, enabling users to create and manage shared resources seamlessly.Engineered a secure authentication and authorization system using Microsoft OAuth, JWTs, and refresh tokens, enforcing fine-grained permissions for pack access and collaborator roles, ensuring data integrity and user privacy.Solely designed and implemented the service architecture, database schema, API endpoints, and automatic synchronization across users' systems.	
Next Level DFS <i>Web Developer</i>	Dec. 2025 – Jan. 2026 Rockford, MI
<ul style="list-style-type: none">Improved website performance and responsiveness by refactoring front-end architecture and optimizing components, resulting in faster load times and smoother user interactions across devices.Enhance maintainability and scalability by reorganizing code into modular, reusable components.	

PROJECTS

Convolutional Neural Network <i>Java, Git</i>	
<ul style="list-style-type: none">Built a convolutional neural network (CNN) in Java by manually implementing convolutional, pooling, and fully connected layers, without using existing machine learning frameworks.Trained and evaluated models on the MNIST and Google Quick Draw datasets, demonstrating end-to-end data processing, training, and inference workflows.Achieved ~99% classification accuracy on unseen test data by training the CNN on a labeled dataset and validating generalization using a held-out test set.	

Deterministic Finite Automaton Parser <i>C++, Git</i>	
<ul style="list-style-type: none">Developed a deterministic finite automaton (DFA) parser to process formal language definitions and validate input sequences.Designed and implemented a custom lexer to tokenize DFA specifications, enabling reliable parsing and analysis.	

Project Spyn <i>MATLAB</i>	
<ul style="list-style-type: none">Designed and built an autonomous maze-navigating vehicle, integrating hardware sensors with control logic.Implemented a 360-degree rotating sensor system to detect obstacles, guide pathfinding decisions, and map the maze layout.	

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, C#, C, C++, Swift, HTML, CSS, XML, JavaScript, SQL
Development Tools: IntelliJ, VSCode, Eclipse, Xcode, Git, Github, Cloudflare, Azure, Unity, Blender, React, Node.js