

Cooper Huntington-Bugg

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GitHub: <https://github.com/Cooper-Bugg>

Professional Summary

Computer Science student at OSU with a background in team leadership and full-stack web development. Experienced in managing digital infrastructure and building complex software solutions involving graph theory and systems logic. Proven ability to bridge technical requirements with effective project management and debugging.

Technical Skills

- Languages: Java, Python, C++, JavaScript, SQL
 - Web Development: HTML5, CSS3, WordPress, APIs, Responsive Design
 - Tools: Git, GitHub, VS Code, Agile Methodologies
 - Key Competencies: Object-Oriented Programming, Unit Testing, Debugging, Data Structures
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Projects

Social Network Analysis Tool (Java)

- Built an undirected graph system to simulate student networks using Adjacency Lists and SQL for data handling.
- Implemented Dijkstra's Algorithm and DFS/BFS for network connectivity, performing rigorous unit testing on traversal logic.
- Executed debugging phases to optimize closeness centrality calculations and identify network connectors.

Floating-Point Arithmetic Simulator (Java)

- Developed a GUI-based simulator replicating IEEE-754 arithmetic, handling bitwise unpacking and normalization.
- Utilized version control to manage code iterations and implemented APIs to streamline GUI event handling.

Professional Experience

Huntington ID | Web Developer *January 2020 – Present*

- Lead the design and deployment of custom WordPress solutions and APIs, managing digital infrastructure and performance.
- Use debugging and version control to maintain site security and optimize user-facing interfaces.

Royale Landscaping | Landscaping Foreman *May 2016 – August 2019*

- Led multi-person teams in high-pressure environments, focusing on project timelines and collaborative problem-solving.
- Translated client needs into actionable technical tasks, ensuring quality control across complex projects.

Education

Oklahoma State University

Bachelor of Science in Computer Science | Minor in Mathematics | Expected Dec 2026

Tulsa Community College

Associate in Science: Computer Information Systems | 2024

Associate in Arts: Liberal Arts | 2024
