

# Thomas Coates

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## PROFILE

M.S. Computer Science graduate with software development experience; U.S. Marine Corps Veteran bringing teamwork and attention to detail.

## EDUCATION

<b>Colorado School of Mines</b> , Golden, CO — M.S. in Computer Science	Aug 2025 3.8 GPA
<b>Colorado School of Mines</b> , Golden, CO — B.S. in Computer Science	Dec 2024 3.7 GPA

## TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, SQL, JavaScript/TypeScript, HTML/CSS, Bash, Swift, OCaml
- **Frameworks:** Angular, React, RxJS, Node.js
- **Tools:** Git, Linux, Jira, Docker, VirtualBox, Node-RED, PostgreSQL
- **Concepts:** Object-Oriented Programming (OOP), REST APIs, Unit Testing, Agile/Scrum

## PROJECTS

<b>Personal Portfolio Website</b> , Independent project	Oct 2025
<ul style="list-style-type: none"><li>• Designed and deployed a modern React/Vite portfolio showcasing projects, with motion animations, a typewriter hero section, and a code-style profile panel. Resume available as downloadable PDF.</li><li>• Technologies: JavaScript, React, HTML, CSS</li></ul>	
<b>Interactive Geospatial Data Viewer</b> , ICR Internship.	May 2024
<ul style="list-style-type: none"><li>• Developed an Angular app with MapLibre for real-time geological data visualization, enabling layer toggling and interactive UI updates with RxJS observables.</li><li>• Technologies: Angular, TypeScript, RxJS, MapLibre, HTML, CSS</li></ul>	
<b>Clue Game</b> , Colorado School of Mines	Dec 2023
<ul style="list-style-type: none"><li>• Designed a digital version of the board game Clue in Java, applying object-oriented programming, Agile Scrum methodology, and a structured testing pipeline for maintainability.</li><li>• Technologies: Java, JUnit, Agile Scrum</li></ul>	
<b>Maze Pathfinding Solver</b> , Colorado School of Mines	Sep 2023
<ul style="list-style-type: none"><li>• Implemented a C++ maze solver using dynamic programming and efficient data structures to compute optimal escape paths and reduce runtime complexity.</li><li>• Technologies: C++, Dynamic Programming, Data Structures &amp; Algorithms</li></ul>	

## EXPERIENCE

<b>Software Engineer Intern</b> , ICR	Jun 2024 - Aug 2024
<ul style="list-style-type: none"><li>• Built responsive UIs in Angular with TypeScript, HTML, CSS for seamless user experience.</li><li>• Integrated RxJS Observables to manage asynchronous data and enable real-time UI updates.</li></ul>	
<b>Math Tutor</b> , Red Rocks Community College	Feb 2022 - May 2022
<ul style="list-style-type: none"><li>• Helped students in various math levels: Algebra, Calculus, Differential Equations.</li><li>• Reviewed with students on advanced math operations and helped prepare for exams when necessary.</li></ul>	
<b>Avionics Quality Assurance Representative</b> , U.S Marine Corps	Nov 2013 - May 2019
<ul style="list-style-type: none"><li>• Trained a highly effective team of 32 Avionics Marines ensuring consistent aircraft operational readiness.</li><li>• Inspected all electrical aircraft maintenance to ensure maintenance actions performed were safe for flight.</li><li>• Skilled in researching, reading, interpreting drawings, maintenance technical manuals, directives, and data.</li><li>• Responsible for the oversight of Top-Secret cryptographic keys aboard ship and land military operations.</li></ul>	