

Ryan Gess  
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## EDUCATION

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| <b>Carnegie Mellon University</b><br><i>Master of Science, Electrical and Computer Engineering; 3.4/4</i><br><i>Bachelor of Science, Electrical and Computer Engineering; 3.3/4</i> | Pittsburgh, PA<br><i>Jan. 2022 – May. 2023</i><br><i>Aug. 2018 – Dec. 2021</i> |
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## EXPERIENCE

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| <b>Raytheon</b><br><i>Senior Software Engineer</i>   | Colorado Springs, CO<br><i>Jan 2026 - Present</i>  |
| <ul style="list-style-type: none"><li>○ Support transition of git repos to <b>Docker</b> containerization and troubleshoot issues that arise from environmental differences.</li><li>○ Troubleshoot and fix failing unit tests in <b>C++</b> and <b>Ada</b> radar code.</li></ul>  |  |
| <b>Collins Aerospace</b><br><i>Software Engineer II</i>  | Colorado Springs, CO<br><i>Jul 2023 - Dec 2025</i> |
| <ul style="list-style-type: none"><li>○ Built features in <b>Java</b> for routing and interpreting sensor data originating on land and in space to support C2BMC National Team.</li><li>○ Engineered a <b>persistent</b> and coherent storage for maintaining availability of data across many instances of a system.</li><li>○ Developed a tool to verify <b>integrity</b> of installed applications. Reduced troubleshooting time by indicating which files had been modified.</li><li>○ Led an investigation to determine risks of upgrading tech and develop solutions for identified risks.</li></ul> |  |
| <b>Collins Aerospace</b><br><i>Software Engineer Intern</i>  | Colorado Springs, CO<br><i>Jun 2022 - Aug 2022</i> |
| <ul style="list-style-type: none"><li>○ Developed an automated testing application for verifying system requirements using <b>Java</b> on C2BMC National Team.</li><li>○ Implemented tests for new requirements and updated existing requirements to ensure version compatibility.</li><li>○ Planned and built new <b>Java/Maven</b> application for aggregating test results on web app to provide historical verification context.</li></ul>   |  |
| <b>Microsoft</b><br><i>Software Engineer Intern</i>  | Redmond, WA<br><i>Jun 2021 - Aug 2021</i>          |
| <ul style="list-style-type: none"><li>○ Investigated methods for optimizing a <b>Yocto</b> build for embedded Linux operating system.</li><li>○ Implemented and enabled ccache within Yocto build and analyzed performance gain, achieved <b>1.2x</b> speedup.</li><li>○ Designed new build pipeline for running unit tests in parallel to increase productivity and pull request turnaround time, achieved <b>25%</b> speedup.</li></ul>  |  |
| <b>Parthean</b><br><i>Full Stack Developer</i>   | Pittsburgh, PA<br><i>Jan 2020 - Jan 2021</i>       |
| <ul style="list-style-type: none"><li>○ Built and designed an analytics page for educators of online learning platform using <b>React, D3.js</b>.</li><li>○ Integrated quantitative metrics to capture member engagement and community growth.</li><li>○ Restructured data model to allow extensibility and improve performance and efficiency.</li></ul>  |  |

## PROJECTS & LEADERSHIP

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**XDash:** Personalized real-time futures trading platform using **Go, React** and **ProjectX API**.  
**Alpine Racing and Freestyle Team, Team Captain:** Lead team practices and fitness activities. Coordinate with competition leaders to plan events.

## SKILLS

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**Languages:** : C/C++, Python, Go, Java, JavaScript, SQL, Ada

**Tools/Frameworks:** : AWS, React, Numpy, PyTorch, gdb, Django, Spring, Maven

**Abilities:** : Data Analysis, Machine Learning, Binary Exploitation, Web Development, Decision Making

**Security Clearance:** Active DoD Secret