MICHAEL HAMMER

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| Objective | Apply my computer science and engineering skills to tackle challenging problems in a stimulating team environment, thereby making a positive impact to an organization and society. |
| Education | Bucknell University Graduated May 2017 • Major: B.S. in Computer Science and Engineering Minor: Mathematics • • GPA: 3.9 Magna Cum Laude Dean's List (every semester) Distinguished Student Award • • Tau Beta Pi Engineering Honors Society • |
| Work Experience | Raytheon Integrated Defense Systems - Software Engineer I June 2017 - Present Clearance Level - SECRET Enhancing protocols for monitoring the health of Patriot Missile System components in combat and during development |
| | NASA Jet Propulsion Laboratory Internship May 2016 - Aug 2016 Worked on developing a communication protocol with the European Space Agency using the CCSDS international networking standards for space applications Modified European networking software in Java to demonstrate transporting JPL space telemetry |
| | NASA Jet Propulsion Laboratory Internship May 2015 - Aug 2015 Developed web applications to improve Mars Relay Telemetry planners' ability to visualize multiple time references (for Mars and Earth) during their Mars-Orbiter-Earth relay planning process Used HTML, CSS, Javascript, and JQuery to design a dynamic calendar that graphically depicts Earth-time and Mars-time (Sols) for each Mars mission |
| | NASA Jet Propulsion Laboratory Internship May 2014 - Aug 2014 Created software to help visualize and assess the performance of the science data processing system used by the Orbiting Carbon Observatory mission Fetched space telemetry (data) with SQL commands, parsed data into JSON format with Python, and visualized information via a web interface |
| | Bucknell University Teaching and Learning CenterAug 2014 - May 2017• Conceived, implemented and led Bucknell's first computer science study group program• Led Study Groups in Computer Science (3 semesters), Physics (1 semester), & Calculus (1 semester) |
| Projects | Lewisburg Children's Museum Rocket Ship GameAug 2016 - May 2017• Developed an interactive gaming system using the Unity game engine to teach children about rocket launch principles in the Lewisburg Children's Museum's Space ExhibitAug 2016 - May 2017 |
| | Fitness Assistant AI May 2018 - Present • Developing a web based fitness coach to help people reach their fitness goals by using data analysis and artificial intelligence May 2018 - Present |
| | Raspberry Pi CarMay 2015 - Aug 2015· Used a Raspberry Pi computer to construct a car controlled via an iPhone over Wi-Fi |
| | Solar System SimulationJun 2014 - Jul 2014· Created interactive, dynamic model of the solar system using fundamental force calculations |
| Technical Skills | Primary Languages Python(5/5), Java(4/5), C(4/5) Web Skills Proficient: HTML, CSS, JavaScript, jQuery Novice: Flask, React, Bootstrap Operating Systems Mac OS X, Windows, Unix |
| | Familiarity Haskell, C++, MySQL, R, MATLAB |
| Interests | Technical Artificial Intelligence, Networking, Web Development, Data Mining Recreational Meeting new people, Healthy living, Traveling, Cooking, Magic, Comedy |