

Justin Clagg

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SUMMARY	Recent graduate pursuing a career in web development. Strong problem solving skills developed from a math and physics background. Motivated worker with personal projects using both front-end and back-end technologies. Eager to collaborate and build relationships.
EDUCATION	<p>University of Pittsburgh, Pittsburgh, PA <i>Bachelor of Science in Physics</i> Aug. 2013 – Aug. 2016 Selected Courses: Computational Physics (Python), Linear Algebra, Complex Variables</p> <p>University of Maryland, College Park, MD <i>Undergraduate Engineering</i> Aug. 2012 – May 2013 Selected Courses: Intermediate Java, Calculus III, Differential Equations</p>
PROJECTS	<p>Twitch.tv Collaborative Development Application github.com/justinclagg/community-twitch-development</p> <ul style="list-style-type: none">• Developed a full stack SPA that allows Twitch streamers to collaborate with viewers on a development project. Users can work on tasks created by admins, and submit their work when finished. Includes the ability to grant private repository access to paid stream subscribers.• React and Redux front-end with a Node server. Includes Twitch.tv and Gitlab.com OAuth2 authentication, creating a cookie with a session id. User sessions, profiles, and tasks are stored in a MongoDB database, with tasks cached through Redis. Real-time updates are pushed using WebSockets.• In use by a streamer with an average 100 concurrent viewers at https://collab.hardlydifficult.com. <p>Local Weather Application github.com/justinclagg/local-weather</p> <ul style="list-style-type: none">• A jQuery application that displays the user's local weather. Uses the geolocation API with a fallback to an IP based location. <p>FreeCodeCamp.com Front-end Curriculum freecodecamp.com/justinclagg</p> <ul style="list-style-type: none">• Received a front-end development certificate for creating 11 applications and completing 50 JavaScript algorithm challenges.
WORK EXPERIENCE	<p>National Institute of Standards and Technology, Gaithersburg, MD</p> <p><i>Guest Researcher</i> Aug. 2013 – Jan. 2015</p> <ul style="list-style-type: none">• Adapted C++ code created during internship to current research problems• Collaborated with NIST and American University employees <p><i>Physics Intern</i> May 2013 – Aug. 2013</p> <ul style="list-style-type: none">• Worked on more efficiently simulating interactions between atoms• Self-taught C++, Fortran, Matlab, and Unix commands• Finished C++ code was 200 - 300% faster than previous methods• Formally presented work to NIST employees and interns
TECHNOLOGY	Front-end: Html5, Sass, ES6 JavaScript, jQuery, React, Redux Back-end: Node, MongoDB, Socket.io Tools: Git, Webpack, Gulp, Mocha