

# Scott A. Forsythe

Computer Engineering student searching for an internship in Software Development

EDUCATION	PROFESSIONAL EXPERIENCE
<ul style="list-style-type: none"> <li>• Current GPA: 4.00</li> </ul> Bachelor of Science in Computer Engineering Purdue University ( <i>expected graduation: 2020</i> ) IPFW Chapman Scholar ( <i>full ride scholarship</i> )	<h3>Software Developer</h3> <ul style="list-style-type: none"> <li>• <b>NASA Langley</b> <i>Software Summer Intern (2 yrs) 2016-7</i>                      Paid Software Development Intern for the next generation Radiation Budget Instrument (RBI). Using MATLAB, worked with field experts to create a Monte Carlo Ray-Tracing model to perform parametric statistical analysis of a real calibration target aboard NASA's upcoming RBI instrument. Used Creo Parametric to add end-to-end model data integration. Applied vectorization and parallel processing, and storage tools like multidimensional arrays to efficiently generate and store simulation data. Gave a formal technical presentation on the model. The data output generated will see use in the end-to-end model of the RBI and will help to interpret and validate the RBI's findings. RBI will launch in 2021.</li> <li>• <b>Indiana State Legislature</b> <i>INCapitolHack 2016</i>                      In 24 hours created an interactive program to improve the government's systems using Ruby on Rails to access the government's data, and HTML5, CSS and JavaScript to present that data in an interactive and meaningful way.</li> <li>• <b>Science Central Science Museum</b> <i>Volunteer 2015</i>                      Updated and optimized Science Central's website for mobile users by adding responsive design elements.</li> <li>• <b>American Library Association</b> <i>Sr Board Member 2015</i>                      Coded a document-hosting website for the American Library Association's Teen Advisory Board, ACPL Branch</li> </ul> <h3>Game Developer</h3> <p><i>Global Game Jam 2015-6</i>                      Member of Purdue's winning 4-person team (<i>Global Game Jam</i>). In 24 hours, developed a first-person, multi-level, 3D puzzle game from concept to operational game. Created 3D models and used JavaScript to develop the game in the Unity game engine.</p> <h3>App Developer</h3> <p><i>Limberlost State Historic Site 2015</i>                      Conceptualized and developed a mobile app and eBook for use in the field. The Indiana Bicentennial Commission has selected the app as an official State Legacy Project. Produced interactive graphics for eBooks: "Dyslexia" and "Limberlost".</p> <h3>Hardware:</h3> <p>Assembled a 3D printer, and generated models with SketchUp 8. Designed and built a desktop computer.</p>
TECHNICAL EXPERTISE	
Languages: <ul style="list-style-type: none"> <li>• C (3 years)</li> <li>• C++ (2 years)</li> <li>• HTML (4 years)</li> <li>• HTML5 (2 years)</li> <li>• Visual Basic (1 year)</li> <li>• CSS (3 years)</li> <li>• Python (3 years)</li> <li>• Javascript (3 years)</li> <li>• Java (2 years)</li> </ul> Proficient in: <ul style="list-style-type: none"> <li>• MATLAB</li> <li>• Adobe tools</li> <li>• Amazon AWS</li> <li>• Microsoft (Windows, Office, Visual Studio)</li> <li>• Google (Drive, webmaster tools)</li> <li>• SketchUp</li> <li>• Apple (iOS, OS X, Pages, Keynote, Numbers)</li> <li>• Android SDK</li> </ul>	
DEVELOPMENT TECHNIQUES	
<ul style="list-style-type: none"> <li>• Agile (programming, testing)</li> <li>• Waterfall</li> </ul>	
HONORS AND AWARDS	
<ul style="list-style-type: none"> <li>• 1st Place, 6-month Java Programming Competition (<i>Purdue FW Computer Science</i>)</li> <li>• Best Engineering Design (<i>Purdue Sci-TEC</i>)</li> <li>• Scholarship for Excellence (<i>College of Engineering</i>)</li> <li>• National Honor Societies (<i>Phi Eta Sigma, National Society of Leadership and Success</i>)</li> <li>• Honors credit (<i>MATLAB and C Programming</i>)</li> </ul>	
LEADERSHIP	
<ul style="list-style-type: none"> <li>• President, IEEE (<i>2017-18 school year</i>)</li> <li>• Vice-President, IEEE (<i>2016-17 school year</i>)</li> <li>• Secretary, Association for Computing Machinery</li> <li>• Member: Society of Physics Students</li> <li>• Founder (<i>2011</i>), the Dyslexic Kids Support Organization, now with over 15,000 members</li> </ul>	
MULTIDISCIPLINARY TEAM PROJECTS	
<p><i>Purdue</i> Led a multi-disciplinary team on problem-solving challenges involving programming, aerospace, circuit design, materials science, and physics.</p>	