ScottAForsythe.com // ScottForsytheEngineering@gmail.com

Scott A. Forsythe

Computer Engineering student searching for an internship in Software Development

EDUCATION

- Current GPA: 4.00

Bachelor of Science in Computer Engineering
Purdue University (*expected graduation: 2020)*
IPFW Chapman Scholar *(full ride scholarship)*

TECHNICAL EXPERTISE

Languages:

- C (4 years)
- C++ (2 years)
- HTML/CSS (5 years)
- C# (2 years)
- Python (3 years)
- Javascript (3 years)
- Java (2 years)
- VB (1 year)

Proficient in:

- MATLAB
- Adobe tools
- Amazon AWS
- Microsoft (Windows, Office, Visual Studio)
- Google (Drive, webmaster tools)
- SketchUp
- Apple (iOS, OS X, office)
- Android SDK
- Linux (Debian and derivatives, incl. Ubuntu)

DEVELOPMENT TECHNIQUES

- Agile (programming, testing)
- Waterfall

HONORS AND AWARDS

- Top 150 U.S. contestant, IEEEXtreme11.0 24-hour worldwide programming competition
- 1st Place, 6-month Java Programming Competition *(Purdue Computer Science)*
- Best Engineering Design *(Purdue Sci-TEC)*
- Scholarship for Excellence *(Coll. of Eng.)*
- National Honor Societies *(Phi Eta Sigma, National Society of Leadership and Success)*
- Honors credit *(MATLAB and C Programming)*

LEADERSHIP

- President, IEEE *(2017-18 school year)*
- Vice-President, IEEE *(2016-17 school year)*
- Secretary, Association for Computing Machinery *(2017-18 school year)*
- Member, Society of Physics Students
- Founder *(2011)*, the Dyslexic Kids Support Organization, now with over 15,000 members

MULTIDISCIPLINARY TEAM PROJECTS

- *Purdue* Led a multi-disciplinary team on problem-solving challenges involving programming, aerospace, circuit design, materials science, and physics.

PROFESSIONAL EXPERIENCE

Software Developer

- ***NASA Langley*** *Software Summer Intern (2 yrs)* 2016-7
  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 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.

- ***Indiana State Legislature*** *INCapitolHack* 2016
  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.

- ***Science Central Science Museum*** *Volunteer* 2015
  Updated and optimized Science Central's website for mobile users by adding responsive design elements.

- ***American Library Association*** *Sr Board Member* 2015
  Coded a document-hosting website for the American Library Association's Teen Advisory Board, ACPL Branch

Game Developer *Global Game Jam* 2015-8
In 48 hours, developed a game from concept to playable release. Used C# (2017-18) and JavaScript (prior) to develop the game in the Unity engine.

App Developer *Limberlost State Historic Site* 2015
Conceptualized and developed a mobile app and eBook. App was selected by the Indiana Bicentennial Commission as an official State Legacy Project.

LEAD Mentor *Purdue* 2017-8
Selected as a mentor for the LEAD Engineering Peer Mentoring Program. Helped freshman students to develop professionally and academically.

Hardware: Assembled a 3D printer, and generated models with SketchUp 8. Designed and built a desktop computer. Parts Lab Technician for Purdue 2017-8

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