Evan Patrick

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Overview:

I have experience in JavaScript, Python, PostgreSQL, Django, HTML5, and CSS. As well, I have extensive experience in research and development environments. I am very accustomed to learning on my own as required to achieve target outcomes, and communicating effectively within a team to maximize group productivity. I am looking for opportunities in the fields of automation, robotics, and web development, so that I can expand my knowledge as a developer.

Experience:

Independent Web Developer
Website: https://www.evanpatrick.net/   February 2020 – Present
Github: https://github.com/EvanPatrick423

    Self teaching web development through:

    Full Stack Javascript Course   January 2021 – Present
    The Odin Project
    https://www.theodinproject.com/paths/full-stack-javascript

    Javascript Fundamentals Course   Completed January 2021
    The Odin Project
    https://www.theodinproject.com/paths/foundations?

Repair and IT Technician
Legacy Box   February 2020 – Present
- Manages the operability of 37 media capture stations.
- Troubleshoots stations, media capturing software and media printers.
- Maintains working efficiency of the floor by preforming routine maintenance and creating maintenance schedules.
- Improves the working efficiency of the floor through continuous improvement practices.

Head of Research and Development/Laboratory Manager
Vital Farms   September 2019 – February 2020
- Designed a centrifugal partition chromatography (CPC) process for extraction of cannabinoid compounds, a method of extraction that achieves higher extraction purity, with lower operational cost.
- Researched and found manufacturers of CPC equipment that meet the companies standard for CBD oil extraction and separation processes.
- Worked with the regional manager and CEO to source buyers, harvest, process, and store the physical biomass, and renovate our extraction laboratory.

Research Assistant for Dr. Bradley Harris
University of Tennessee   May 2019 – August 2019
- Designed network communication structure using Labview, that would allow researchers to operate the chemical engineering controls systems lab machines remotely from any internet capable devices.
- Researched microcontrollers that meet requirements of communication software.

Technical Skills:

- JavaScript
- Django
- PostgeSQL
- Python
- VBA
- CSS
- HTML5
- Labview Experience (Laboratory Control System Software)
- ChemCad Experience (Chemical process modeling software)
- Solidworks
- Proficient in Excel, Microsoft Office, and PowerPoint

Honors:

Graduated University of Tennessee with *Deans list* distinction for high academic standing 2015 – 2019

Tau Beta Pi Engineering Honors Society Member

Experience (continued):

Community Outreach Specialist
Hester Group   April 2019 – July 2019

- Collaborated with a team to further the Southside Chattanooga Lead project.
- Informed communities in affected areas of possible contamination by presenting the situation to landowners including sources of contamination, testing plans, methods of remediation, and steps that will be undertaken to undergo the remediation process.

Research Assistant for Dr. Sungwoo Yang
University of Tennessee   August 2017 – May 2019

- Researched and developed methods of ambient drying of aerogel for the purposes of creating translucent insulation materials and solar thermal energy conversion devices.
- Performed literature review and experiments to construct standard methods of production and data collection regarding measuring the total weighted solar transmittance of the aerogel samples.
- Developed software to assist other researchers in volumetric calculations of aerogel.
- Produced an aerogel sample with the highest solar weighted transmittance synthesized by the lab at that time (72% Total weighted solar transmittance).

Research Assistant for Dr. Soubantika Paloudhury
University of Tennessee   May 2017 – August 2017

- Studied the effects of engineered nano particles on plant growth in the interest of environmental effects and for possible use as improved fertilizer.
- Recorded growth and growth differentials of different species of beans growing in solutions of either DI water or varying concentration of nanoparticles.

Supplemental Instruction Leader
University of Tennessee   January 2017 – May 2017

- Tutored general and organic chemistry student by breaking down subjects into essential concepts and developing problem-solving techniques.
- Led two weekly review sessions with review lectures, review worksheets, and collaborative problem solving.
- Generated review lecture material, presentations, in class problems, reviewed worksheets and collaborative problems.

Education:

University of Tennessee   Graduated May 2019
BS Chemical Engineering   GPA 3.5

Activities:

Chem-E-Car Captain
Chemical Engineering Competition
    August 2016 - December 2018
    - AIChE Nationals 2018 placed 8th
    - AIChE Nationals 2017 placed 13th.
    - AIChE Regionals 2017 placed 3rd

Tau Beta Pi Community Service
    November 2018 - Present
    - Collaborated in small teams to organize community service events. Ours was to try to get high school students excited about engineering and engineering concepts.
    - To help achieve this I was the main point of contact between our group and a local teacher wanting to make rudimentary electric guitars as a project for their high school, while also helping the teacher figure out how to achieve said goal and implement for class room.

Moon Hollow (Musicians Group)
    November 2016 - Present
    - We create, refine, memorize, and perform pieces of music
    - Managed money made to invest into merchandise, new equipment, and other necessities
    - Collaborates with many entities to organize and plan events

Interests Include
    - Meditation
    - Philosophy
        o Simone de Beauvior
        o Jean-Paul Sartre
        o Friedrich Nietzsche
    - Music

LinkedIn:

https://www.linkedin.com/in/evan-patrick-4824481b1/