Nittany AI Advance Internship - Multiple Opportunities

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Job Number: REQ_0000064944

Approval of remote and hybrid work is not guaranteed regardless of work location. For additional information on remote work at Penn State, see Notice to Out of State Applicants.

JOB DESCRIPTION AND POSITION REQUIREMENTS

The Nittany AI Alliance at The Pennsylvania State University (PSU) is looking for talented and driven PSU undergraduate students to join its Advance program as a Data Scientist, Front-end Developer, and Back-end Developer. Advance interns will work on AI-related

projects in an Agile software development team, collaborating with data scientists, software developers, a scrum master, and product owners, gaining hands-on experience that enhances their learning and marketability. Selected candidates will assist with the creation of prototypes leveraging artificial intelligence and drive the design of related cognitive modules.

Specifically, the **Data Scientist** will research state-of-the-art algorithms in machine learning to identify viable project approaches, design prototypes that connect data sources to a concrete use case and develop code to test the efficacy and efficiency of algorithms against real-world data. The **Front-End Developer** will build upon wireframes and concepts created by a UX Designer leveraging technologies such as HTML, CSS, and JavaScript. They will produce, modify, and maintain web application user interfaces. They will work with Data Scientists in back-end design, collaborating on APIs, data structure, and data integration. They will maintain software workflow, versioning, and testing during development and address any bugs. They will document all code according to common development best practices and create technical documentation of project work to facilitate knowledge sharing. The **Back-End Developer** will research state-of-the-art algorithms in machine learning to identify viable project approaches, design prototypes that connect data sources to a concrete use case and develop code to build and improve upon a prototype optical character recognition and natural language processing solution.

Experience Required for Data Scientist:

Python, TensorFlow, Infer.net or Caffe is required. Proficiency in relevant mathematics, such as linear algebra and multivariate calculus. Skilled in JavaScript or R. Knowledge of data structures and data management methods. Ability to communicate technical topics effectively to nontechnical audiences, and ability to interpret and apply technical papers and articles in research journals is beneficial. Experience with cloud computing and storage services, especially Amazon Web Services (AWS) and experience with containerization technologies such as Docker or Kubernetes is a plus.

Experience Required for Front-end Developer:

HTML5 and CSS is required. Proficiency in Modern JavaScript and related frameworks, Python, responsive design and CSS frameworks like Bootstrap. Experience with a code versioning tool such as GitHub, cloud computing and storage services, especially Amazon Web Services (AWS), containerization technologies such as Docker or Kubernetes and previous experience in Agile teams or collaborating with UI/UX designers and data scientists is a plus.

Experience Required for Back-end Developer:

Python and one or more of the following AI modeling: Natural Language Processing (NLP), Machine Learning (ML), Computer Vision (CV) concepts is required. Experience with spaCy NLP library desirable. Proficiency in Java and/or Vue framework, knowledge of data

structures and data management methods, and the ability to communicate technical topics effectively to nontechnical audiences is beneficial. Experience with cloud computing and storage services, especially Amazon Web Services (AWS), is a plus.

Interviews are conducted in March for the Fall semester and October for the Spring semester. Strong consideration will be given to candidates who can present a successful project in their domain. This is a part-time position for current Penn State undergraduate students only with the ability to work 15-20 hours per week at $15.00 per hour. Possibility for the internship to extend into the following semester based on Nittany AI Alliance workload and availability of the candidate.

BACKGROUND CHECKS/CLEARANCES

Employment with the University will require successful completion of background check(s) in accordance with University policies.

CAMPUS SECURITY CRIME STATISTICS

Pursuant to the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and the Pennsylvania Act of 1988, Penn State publishes a combined Annual Security and Annual Fire Safety Report (ASR). The ASR includes crime statistics and institutional policies concerning campus security, such as those concerning alcohol and drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. The ASR is available for review here.

EEO IS THE LAW

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The Pennsylvania State University is committed to and accountable for advancing equity, respect, and belonging in all its forms. We embrace individual uniqueness, as well as a culture of belonging that supports both broad and specific equity initiatives, leverages the educational and institutional benefits of inclusion in society, and provides opportunities for engagement intended to help all members of the community thrive. We value belonging as a core strength and an essential element of the university's teaching, research, and service mission.

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