Full-Stack Software Engineer

Titan Advanced Energy Solutions, headquartered in Salem, MA, develops revolutionary, ultrasound-based battery cell inspection systems. Using non-destructive, high-resolution, high-speed ultrasound technology, Titan's IonSight analyzes cell morphology to detect critical manufacturing anomalies, directly addressing safety concerns and in-field risks. The novel in-line technology integrates into existing cell manufacturing processes to decrease the cost of quality, accurately classify cell quality grades, and evaluate lifetime performance and safety characteristics.

Titan's innovative strides have been recognized with numerous awards and funding from top clean energy programs and institutions, including Greentown Labs, the Massachusetts Clean Energy Center (MassCEC) and the Department of Energy. Growing and poised to continue this positive momentum, this is an exciting time to join the Titan team!

Reporting to the Head of Software Engineering, you will lead the development efforts of a growing software applications team. We are looking for an independent thinker who is highly self-motivated, driven to achieve goals, team-oriented, and passionate about delivering mission critical software solutions to our growing customer base. The ideal candidate will have experience developing and delivering all parts of the web application stack with a focus on database, API, and supporting infrastructure. A successful candidate for this role will have experience or a solid understanding of how to deliver customer-facing operational analytics and data visualization applications securely over the public internet.

Duties and Responsibilities

- Specify and implement backend systems in both Python and Typescript
- Work closely with front-end and data engineers to deliver cohesive application features
- Implement performant, configurable, testable, and secure backend systems
- Clearly communicate with and provide code reviews for team members
- Operationalize scalable data storage and retrieval systems
- Codify our infrastructure and application build and deploy process

Required experience in most or all the following:

- Minimum BS degree in relevant technical field
- 5+ years designing and developing scalable cloud native web application
- Expert level knowledge of python API development and supporting frameworks
- Production experience with both SQL, Document Database and Performant caches
- Experience with defining AWS infrastructure in code
- Familiarity with typescript and popular web front-end frameworks

Personal Values:

- Bias to action, self-motivated and entrepreneurial spirit
- Attention to detail, effective time management, and pride in work
- Dependable, trustworthy, empathetic & full of integrity
- Strong collaborative communication skills; able to build consensus internally and externally