



Job Announcement of HEXACLUSTER

The T&P Team wishes to inform about a career opportunity at **HEXACLUSTER**. **HEXACLUSTER** would like to hire **Computer Science Engineering** graduates of 2024 for **UI/UX Developer, Software Developer, Database Administrator, Machine Learning Engineer**, with following eligibility criteria.

- Job Designation: **UI/UX Developer, Software Developer, Database Administrator, Machine Learning Engineer**
- Place of Posting :

Eligibility:

Branches: CSE
CGPA: 8 and above
Place of posting: Remote

Salary Details

- **Cost to Company:** 5-12 Lakhs per annum
- **Training :** 6 months
- **Internship :** Yes, 24 weeks
- **Stipend:** 15K
- **Location :** Remote

Recruitment process:

- ❖ Shortlist from Resumes
- ❖ Written Test
- ❖ Technical Interview
- ❖ Personal Interview

How to Apply: If meet the eligibility criteria and interested about this opportunity, please apply through the Training & Placement Portal (<https://tpcrt.rf.gd>) by **November 17, 2023, 2:00PM**.

Sd/-

T & P Office

Database Administrator - Intern

Job Description

We are seeking a talented and enthusiastic intern to join our team as a PostgreSQL Database Administrator Intern. This position offers an excellent opportunity to gain hands-on experience in database administration, specifically focusing on PostgreSQL. The ideal candidate should have a basic understanding of PostgreSQL and key database concepts, coupled with a passion for learning and a desire to contribute to real-world projects.

Key Responsibilities

- Assist with routine maintenance tasks, including data backups and recovery procedures.
- Gain exposure to monitoring database performance and implementing optimization strategies.
- Contribute to the development of database structures, emphasizing normalization, primary key, and foreign key concepts in PostgreSQL.
- Work with the team to investigate and resolve common database-related issues and apply troubleshooting techniques to address challenges as they arise.
- Contribute to clear documentation of database configurations and procedures.
- Actively participate in knowledge-sharing sessions and training opportunities.

Qualifications

- Currently pursuing or recently completed a degree in Computer Science.
- Basic understanding of PostgreSQL and key database concepts (normalization, primary key, foreign key).
- Strong analytical and problem-solving skills.
- Eagerness to learn and adapt to new technologies.

- Excellent communication and interpersonal skills.

What We Offer

- Gain practical experience in database administration with a focus on PostgreSQL.
- Access to training sessions, workshops, and mentorship programs.
- Work closely with experienced professionals and contribute to real-world projects.
- Explore potential career paths within the field of database administration.
- Build valuable connections with industry experts and fellow interns.
- A dynamic and inclusive work environment.
- Mentorship from experienced professionals in the field.
- Flexible hours, networking opportunities, Incentives, Opportunity to work on Customer-facing projects that may involve travel to other countries.

Machine Learning Engineer - Intern

Job Description

We are seeking a dedicated and motivated intern to join our team as a Machine Learning Intern. This position provides a unique opportunity to gain hands-on experience in end-to-end machine learning projects, encompassing research, development, and deployment. The ideal candidate should have a foundational understanding of machine learning concepts, a strong passion for innovation, and a desire to contribute to cutting-edge projects.

Key Responsibilities

- Assisting in collecting, cleaning, and preparing data for research purposes.
- Engaging in exploratory data analysis to uncover patterns and insights.
- Contributing to the development of machine learning models under the team's guidance.
- Participating in model evaluation, performance tuning, and refinement activities.
- Researching and staying updated on the latest advancements in machine learning.
- Collaborating to implement machine learning algorithms in languages such as Python or R.
- Gaining exposure to the deployment of machine learning models in real-world applications.
- Contributing to the deployment of machine learning models into production environments.
- Working with the team to integrate models into existing systems and applications.
- Documenting the machine learning development process, including model architecture, implementation details, and deployment procedures.
- Assisting in preparing reports and presentations summarizing findings, project progress, and deployment outcomes.

Qualifications

- Currently pursuing a Bachelor's in Computer Science, Data Science, or a related field.
- Basic understanding of machine learning concepts and algorithms.
- Programming skills in languages such as Python, R, or similar, with hands-on experience in sklearn, numpy, pandas, PyTorch or TensorFlow is an advantage.
- Strong analytical and problem-solving skills.
- Eagerness to learn and adapt to new technologies.
- Excellent communication and interpersonal skills.

What We Offer

- Gain practical experience in database administration with a focus on PostgreSQL.
- Access to training sessions, workshops, and mentorship programs.
- Work closely with experienced professionals and contribute to real-world projects.
- Explore potential career paths within the field of database administration.
- Build valuable connections with industry experts and fellow interns.
- A dynamic and inclusive work environment.
- Mentorship from experienced professionals in the field.
- Flexible hours, networking opportunities, Incentives, Opportunity to work on Customer-facing projects that may involve travel to other countries.

Software Developer - Intern

Job Description

As a Software Developer - Intern at HexaCluster, you will be instrumental in the backend development of some of our tools. Your primary responsibility will be to design and implement robust backend services, ensuring high performance and responsiveness to requests from the front-end. You will work closely with our team of experienced developers and project managers to build an application that is both powerful and user-friendly.

Key Responsibilities

- **Creating and Optimizing Efficient Algorithms**
 - In this crucial role, you will not only select but also create efficient algorithms that meet the specific needs of our tools. This responsibility involves designing best algorithmic solutions from the ground up, as well as optimizing existing algorithms to enhance their efficiency. Your deep understanding of algorithmic design will be playing a key role in developing solutions that are both time and resource-efficient, ensuring the tool operates effectively under various computational scenarios. Your expertise in this area will be key to handling complex data structures and large datasets, significantly contributing to the tool's overall performance and capability.
- **Concurrency and Parallelism Techniques**
 - You will be responsible for designing and implementing advanced concurrency and parallelism techniques within our software. This includes developing multi-threaded processes to enhance the performance of our tool, ensuring that it can handle multiple operations in a scalable and efficient manner. Your role will involve writing thread-safe code, managing synchronization, and avoiding deadlocks and race conditions. Your contributions will be vital in

optimizing the tool's performance, particularly in high-load and concurrent operation environments.

- **Expertise in Data Stream Management**

- Handling data streams efficiently will be a key responsibility. You will develop and optimize systems for processing and migrating large volumes of data with minimal latency. This includes ensuring data integrity, optimizing data throughput, and enhancing the scalability of our data processing mechanisms. Your role is critical in ensuring that the tool can handle increasing data volumes effectively, maintaining high performance and reliability.

Additional Responsibilities

- Develop and maintain the backend for our tools using Python, focusing on Flask and FastAPI frameworks, and design and implement RESTful APIs to ensure seamless integration with the front-end and other services.
- Write clean, maintainable, and efficient code, adhering to best practices in software development.
- Collaborate with UI/UX developers and other team members to meet the technical and business needs of the project.
- Contribute to the entire application lifecycle, focusing on coding, debugging, and testing.
- Optimize the application for maximum speed and scalability.
- Stay knowledgeable of emerging technologies and propose their adoption where beneficial.
- Participate in code reviews, team meetings, and other collaborative efforts.

Qualifications

- Currently pursuing or recently graduated with a degree in Computer Science, Software Engineering, or a related field.
- Strong proficiency in Python and deep knowledge of Flask and FastAPI frameworks.

- Familiarity with RESTful API development and Python Data Structures and Algorithms.
- Ability to write high-quality, well-documented, and efficient code.
- Strong problem-solving skills and the ability to work in a fast-paced environment.
- Excellent communication and teamwork skills.
- A passion for backend development and a keen interest in learning new technologies.
- Knowledge or expertise in Golang or Rust will be considered a plus.

What We Offer

- An opportunity to work on an innovative project with a talented and supportive team.
- Hands-on experience in Backend development and an opportunity to enhance your skills in PostgreSQL, backend development and Machine Learning.
- A dynamic and inclusive work environment.
- Mentorship from experienced professionals in the field.
- Flexible hours, networking opportunities, Incentives, Opportunity to work on Customer-facing projects that may involve travel to other countries.

UI/UX Developer - Intern

Job Description

As a UI/UX Developer Intern at HexaCluster, you will play a crucial role in designing and developing the user interface for some of our tools. You will work closely with project managers and stakeholders to create a user-friendly and visually appealing interface that meets the project's requirements.

Key Responsibilities

- Collaborate with the project management team and stakeholders to understand their needs and translate them into design concepts.
- Create high-fidelity UI/UX designs using tools like Figma, ensuring that the designs are practical, visually appealing, and user-friendly.
- Present design concepts to stakeholders and project management, incorporating their feedback and recommendations into the final design.
- Develop the user interface using ReactJS, HTML, and CSS, ensuring compatibility across different browsers and devices.
- Implement server-side rendering using NextJS and ReactJS components to optimize performance and user experience.
- Participate in regular team meetings and provide updates on the progress of the UI/UX development.
- Stay updated with the latest trends in UI/UX design and web development technologies.

Qualifications

- Currently pursuing or recently completed a degree in Computer Science, Graphic Design, or a related field.
- Strong skills in UI/UX design, with a portfolio showcasing previous work.
- Proficiency in ReactJS, HTML, CSS, and experience with Figma or similar design tools.
- Familiarity with NextJS and server-side rendering concepts.

- Excellent communication and collaboration skills, with the ability to work effectively in a team environment.
- Creative thinking and problem-solving abilities.
- Eagerness to learn and contribute to a project with real-world applications.

What We Offer

- An opportunity to work on an innovative project with a talented and supportive team.
- Hands-on experience in UI/UX development and an opportunity to enhance your skills.
- A dynamic and inclusive work environment.
- Mentorship from experienced professionals in the field.
- Flexible hours, networking opportunities, Incentives, Opportunity to work on Customer-facing projects that may involve travel to other countries.