**Hemanta Pathak**

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# EDUCATION

***Bachelor of Science – Computer Science, GPA – 3.86* Aug 2019 *-* May 2023**

University of Louisiana Monroe – Monroe, LA

***Capstone Project: Official Website for Pre-Medical Advisory Committee***

* Led the development of a comprehensive web application using React for the frontend and Spring Boot with Servlets deployed on Apache Tomcat serving 300+ users per semester.
* Implemented a secure user authentication system with OAuth 2.0, enabling three distinct user groups - students, committee members, and chairpersons.
* Empowered committee members with extensive capabilities, allowing them to monitor student application progress, provide feedback, schedule appointments, and communicate seamlessly through the application.
* Leveraged Hibernate as the Object-Relational Mapping (ORM) tool to facilitate smooth communication between the Java backend and MySQL database in Docker, ensuring efficient data storage and retrieval.

# WORK EXPERIENCE

## Technical Intern Jun 2022 – Aug 2022

DXC Technology - New Orleans, LA

## Implemented logging visualization dashboard that processed and visualized logs from over 10,000 daily application events in AWS CloudWatch.

## Led the development of the log interface in OpenSearch collaborating through project management tool Jira, which improved the monitoring and analysis efficiency by 30% compared to the previous system.

## Spearheaded the Software Architecture Design using AWS products including Lambda, EC2, and S3 bucket, resulting in a 25% reduction in system maintenance efforts due to the improved design's modularity.

## Developed and integrated 15 metrics classes in JavaScript and Python, enhancing the application's analytics capabilities, leading to a 20% increase in data-driven decision-making.

## Automated deployment and testing through Jenkins pipeline, reducing deployment time by 40% and ensuring a more reliable and error-free delivery process.

## Software Developer Intern Jun 2021 – Aug 2021

Charter Communications – Greenwood Village, Colorado

* Led the technical development of an Event Management System using Python and Django, incorporating Django's built-in authentication system for secure user access.
* Integrated third-party APIs for payment processing and SMS notifications, ensuring smooth interactions with external services.
* Actively engaged in code reviews, providing valuable feedback to team members to maintain code quality and adherence to best practices.
* Implemented role-based access control to define user permissions and roles within the system, enhancing security and data privacy.
* Developed an intuitive user interface using HTML, CSS, and JavaScript, focusing on responsive design to ensure a seamless experience across different devices.

# HONORS AND AWARDS

## Academic Excellence Award Aug 2019 – May 2023

## University of Louisiana Monroe – Monroe, LA

* Graduated ***cum laude*** and consistently recognized for academic excellence, earning a place on the President’s List and Dean’s List throughout the period from 2019 to 2023.

# SKILLS

• Java, Servlet, TypeScript, AngularJS, HTML, CSS, Unix, SQL, PostgreSQL, OO Design Pattern, Agile Methodologies, Tomcat, Spring, Authentication, RESTful JSON APIs, Troubleshooting, Strong Communication, Self-motivated, Git