TISHA JHABAK

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ABOUT ME

Technical Skills Java, Python, SQL, JavaScript, Node.js, Express.js, React, HTML5, BootStrap, Tensorflow, PyTorch, Pandas, Matplotlib, Seaborn, Scikit-learn, Git, MongoDB

Miscellaneous Jira/Trello, AWS, Machine Learning, Team Player

EDUCATION

The University of Sydney   02/2021–06/2025
- Bachelor of Software Engineering Honours, Dalyell Scholar
- Recipient of the Sydney International Student Award
- Sydney University Women in Engineering Mentee
- Notable courses: Data Structures and Algorithms, Advanced Software Construction and Design, Data Information and Management

WORK EXPERIENCE

Academic Tutor   02/2023 - present
The University of Sydney
- Tutored ISYS2110-Analysis and Design of Web Information Systems, SOFT2201-Software Construction and Design, SOFT241-Agile Software Practices, ISYS2120-Data and Information Management, and DATA1002-Introduction to Data Science, COMP3308-Introduction to AI
- Conveyed intricate concepts to over 200+ students by employing relatable analogies tailored to diverse learning styles
- Produced illustrative reports and provided helpful feedback to enhance students' performance throughout the semesters

Summer Research Intern   11/ 2023 – 02/2024
Sydney Informatics Hub
- Performed thorough analysis and monitoring of workload patterns to identify optimal resource scaling strategies, resulting in efficient resource allocation and reduced overhead costs
- Implemented load balancing algorithms and containerization techniques to ensure efficient resource utilization and maximize system performance under varying workloads
- Applied re-architecting methodologies to drive tangible improvements, delivering cost-effective and sustainable solutions in the realm of distributed computing

Backend Engineer Intern   06/2023 – 08/2023
FinTech Australia
- Implemented Fidessa API for customer order management and execution, while also developing and rigorously testing tailored solutions for regional stock transactions
- Led technical architecture discussions to address scalability challenges, fostering collaborative dialogues to generate innovative solutions
- Utilized Least Recently Used (LRU) to mitigate the impact of the black hole effect by introducing time delays to error messages, enhancing system stability and user experience

Software Engineer Intern   02/2023 – 06/2023
WestMead Health Precinct
- Designed and developed A-WPTAS and PCSS tests critical for evaluating users' symptoms as part of a Concussion Detection and Action Plan App
- Conducted thorough unit and integration testing using JUnit testing framework, ensuring seamless transitions between newly added test components and enhanced user interfaces
- Implemented an extensible 'Eye-tracking' module to bolster the app's concussion detection capabilities, resulting in a remarkable 23% improvement in concussion detection accuracy

PROJECTS AND COMPETITIONS

Revibe | **Flutter, Dart**   01/2024
- Spearheaded backend development, emphasizing global sustainability efforts to track waste reduction and reward users for scanning reusable items at partner stores
- Implemented robust backend architecture designs to ensure efficient data processing and management, facilitating smooth integration of scan tracking functionalities within the app

Campus Eats | **JavaScript, AJAX, Flask**   11/2023
- Led a team of 5 to develop an interactive review systems, with integration of Google API, to let users discover nearby restaurants near USYD and make informed dining choicest
- Engineered deliverables such as fetching restaurant information and enabling dynamic updates for reviews and comments using AJAX

Hue Hunt | **JavaScript, JSON**   10/2023
- Developed and launched Hue Hunt, a user-friendly Chrome extension simplifying color picking tasks for designers and developers, enabling effortless color capturing, history tracking, and seamless integration into projects
- Implemented key features including a color picker for quick selection, a color history display for easy reference, and a one-click option to copy or delete selected colors, enhancing user productivity and workflow efficiency

Pixcelerator | **React, Machine Learning**   07/2023
- Spearheaded the development of Pixelerator, a platform designed to facilitate users in exploring visual artistry
- Engineered seamless image transformations, including neural style transfers and cartoon effects, to empower users to unleash their digital creativity effortlessly