

# 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

## EDUCATION

### The University of Sydney

02/2021–12/2025

- Bachelor of Software Engineering Honours, Dalyell Scholar
- Recipient of the Sydney International Student Award
- 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, COMP3888-Software Development Project
- Conveyed intricate concepts to over 200+ students by employing relatable analogies tailored to diverse learning styles
- Crafted detailed performance reports for students each semester, analyzing trends and providing actionable feedback; enhanced academic performance for 80% of students, resulting in improved course completion rates

### Software Engineer Intern

15/2024 – present

[Hanlon Industries](#)

- Optimized API in Tekla Structures for 3D modeling of curved billboard structures, enhancing accuracy by 98%
- Applied advanced mathematical models to resolve modeling defects in curved billboard structures, reducing defect occurrence by 75% and improving rendering speed by 40%
- Refactored the codebase to ensure application's compatibility with Tekla Structures 2024 release

### 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 by 14%
- Integrated load balancing algorithms and containerization techniques to ensure efficient resource utilization, achieving a 23% increase in 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, resulting in a 41% increase in order processing efficiency
- Led technical architecture discussions to address scalability challenges, fostering collaborative dialogues to generate innovative solutions
- Leveraged 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, and leading to a 50% reduction in system downtime

### Software Engineer Intern

02/2023 – 06/2023

[WestMead Health Precinct](#)

- Designed and revamped 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
- Engineered an extensible 'Eye-tracking' module to bolster the app's concussion detection capabilities, achieving a remarkable 36% 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
- Programmed 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

- Supervised 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 choices
- Engineered deliverables such as fetching restaurant information and enabling real-time updates for reviews and comments using AJAX, resulting in a 32% decrease in page load times

### [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 color selection and retaining selection history, enhancing user productivity