JAPNEET SACHDEV

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EDUCATION

Macquarie University, Sydney, Australia   2019 – 2024
Bachelors of Engineering in software engineering (Honors)
Coursework – Analysis of Algorithms, Database Systems, Web technologies, ML for Data Science, Data Structure & Analysis,
   Computer Network & Security, AI & DS, Operating System, Software Engineering

WORK EXPERIENCE

Software Tester Trainee | World Sports Action, Australia   Feb 2024 – June 2024
- Tested and maintained an internal website for the sports registering finance team. Utilized JavaScript, SQL to streamline testing data, create test cases for website and application decrease error generation time by 35%. Oversaw the entire development test cases scenarios of website and application.
- Collaborated closely with Development team to fix errors and enhance multiple features, ensuring the platform met evolving needs. Conducted thorough documentation on Jira and Confluence to maintain ownership and team responsibility.

Junior Software Developer | Codeemasters, Australia   June 2022 – August 2022
- Developed the Backend to construct 10 distinct modules of a Hospital Management App, including doctor's appointment scheduling, Patient's medical history tracking, and Patient Authentication using Django, REST API, and MongoDB.
- Created a School Management App using Django and Django Rest Framework, revolutionized attendance management and class-timetable modules for educational institutions; streamlined classroom administration processes, boosting efficiency by 40% and reducing administrative workload by 50%.

Residential Advisor | Morling Residential College, Australia   Feb 2021 – Nov 2023
- Researched the literature gap and introduced four additional parameters (soil, rainfall, temperature, and area) to enhance agricultural and horticultural practices in India.
- Showcased a Model with an impressive 97% accuracy at the IBM Hack Challenge 2021, securing qualification in final round.

SOFTWARE PROJECTS AND RESEARCH PAPER

Memory storage and Image Website & Android App | Angular, NodeJs, ExpressJS, MongoDB, Java & REST
- Engineered a full-stack web application leveraging the stack of images to deliver real-time gallery data. Architected a responsive Angular frontend, and orchestrated the integration of a RESTful API with Node.js and Express.js, ensuring robust data management and a seamless user experience.
- Pioneered the extension of the web platform to mobile by developing a corresponding Android app using Java. Crafted an intuitive, user-centric mobile interface, and implemented a unified backend API to synchronize data between the web and mobile platforms, achieving consistent performance and streamlined maintenance.

Autonomous Transit System | Python Libraries – CNN, NumPy, Open CV2, Linear SVC, Tkinter, and Yolov3
- Initiated development to enhance safety measures within buildings, apartments, and offices. Achieved a notable 40% reduction in security vulnerabilities by implementing cutting-edge features such as light detection, real-time monitoring, and emergency alerting functionalities.
- Integrated real-time detection utilizing CNN. Additionally, optimized camera-based object classification using Linear SVC for feature settings, triggering an 80% increase in system efficiency & accuracy.

Research Paper | Computer vision affecting human-human interactions | TensorFlow, Pandas, OpenCV and Notebook
- Engineered an end-to-end pipeline for an ML algorithm using TensorFLow tools, resulting in a face detection algorithm to predict gestures and facial expressions in order to analyse behavioural pattern of the target audience and enabling real-time predictions to be evaluated and present in graphs.

TECHNICAL SKILLS

- **Programming Languages** – C, C#, Java, Python, JavaScript, SQL, HTML, CSS, Kotlin, MongoDB, PostgreSQL, Android.
- **Frameworks** – Django, Flask, Bootstrap, Angular, React, NodeJS, Express, Unity, Figma, Tableau, Alteryx
- **Professional certifications**: AWS Cloud Practitioner, Artificial Intelligence, Azure Microsoft, Data management SQL
- **Machine Learning** – Pandas, Numpy, OpenCV, CNN, Yolov3, Scikit-learn, TensorFlow
- **Miscellaneous** – Git, GitHub, Docker, DevOps, PowerBI, Colab, Kubernetes, Linux, Unix, Jira, Confluence, NetBeans, AWS.

LEADERSHIP AND COLLABORATION

President **|** Student Association of Morling College   Jan 2020 – Dec 2021
- Orchestrated strategic planning and execution of event planning, including budget, team meeting, decision making
Event Co-ordinator **|** Macquarie Sikh Society in Macquarie University   Jan 2021 – Dec 2021
Event Co-ordinator **|** Macquarie Indian Society in Macquarie University   Jan 2022 – Dec 2022