

NAVEEN S. KULARATNE

Software Engineer

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EDUCATION

University of Passau
Master of Science in Computer Science

Passau, Germany
2018 – 2023

Asia Pacific University
Bachelor of Science in Software Engineering Asia Pacific University

Kuala Lumpur, Malaysia
2014 – 2017

WORK EXPERIENCE

Thousand Japan
Internship

Tokyo, Japan
Sep 2017 – Dec 2017

- Crafted web applications and iOS interfaces with a keen eye for design and practical functionality. Created striking banners and webpages, adhering to iOS design principles to ensure platform maturity and optimal user experience. Conceptualized and designed the screenshot layout for the Fukroo application, enhancing its visibility and appeal on the App Store.
- Applied responsive design principles to create websites that are visually appealing and accessible on all platforms.
- Revitalized the company's web presence by enhancing website structure: Optimized page layouts for consistent user experience, eliminated superfluous alignments to improve readability, and meticulously proofread typography to ensure professional content presentation.

PROJECTS

Master Thesis ([GitHub](#))

Automated labeling of plain-text privacy policies via machine learning by analysis of labeling strings for DPV mapping.

Python, Tensorflow, Scikit-learn, NumPy, Matplotlib

- Designed and executed advanced machine learning and deep learning algorithms to achieve high-accuracy multi-label text classification.
- Successfully streamlined the mapping of data privacy vocabulary (DPV) to predicted labels, thereby enhancing the model's predictive power and modernizing the OPP-115 dataset.
- Leveraging the power of deep learning models, the project resulted in a remarkable 22.22% surge in recall and a 10.71% increase in F1 score. In a contrasting scenario, employing machine learning models, I was instrumental in achieving a substantial 62.07% escalation in precision score.

Bachelor Thesis ([GitHub](#))

Web-based Medical Consultation System

HTML/CSS, Node.js, Express.js, MongoDB

- Analyzed and developed an innovative web application that bridges the gap between medical professionals and patients in remote areas, revolutionizing access to healthcare. This platform enables real-time online consultation, bringing expert medical advice to the fingertips of those who need it most.
- The application is directed to empower elderly users and those requiring hospital transportation. This inventive solution significantly reduces patient waiting times, enabling swift and efficient access to medical care.
- The system is equipped with intuitive user control settings, streamlining the process of scheduling appointments and fostering post-consultation communication through an intuitive commenting feature.

Inspect-Ricals ([GitHub](#))

Electrical installation and inspection management system (EIIMS)

Java, Oracle DB

- Engineered a Java desktop application for an electrical company specializing in advanced wiring and installation services.
- Driving operational efficiency, the application organizes the management of inspection processes. It also harnesses the power of data analytics to generate insightful reports, empowering both management and clients with critical business intelligence.
- Implemented an Oracle database to manage customer and user data securely. The database design was carefully crafted to optimize data storage, ensuring efficient querying and data retrieval.

SKILLS

Programming Languages – Python, Javascript/Node.js, SQL, Bash

Web Development – HTML5/CSS3, Express

Databases – MySQL, MongoDB, Oracle DB

Data Science/ML – Tensorflow, Scikit-learn, Scikit-multilearn, Matplotlib, NumPy, Jupyter, NLTK, Gensim

Other Technologies – Docker, AWS, Selenium, Postman, Git, Jasmine

Languages – English, German (A1), Japanese, Sinhala