PRAKASH
PALANIVELU RAJMOHAN

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PROFILE
Results-driven part-time technology consultant at Visagio Australia, currently pursuing full-time honours in computer science, and armed with a Bachelors of Computer Science majored in Machine Learning degree from The University of Queensland. Proficient in Python, C++, and adept in AI, ML, math, statistics and algorithm development.

EDUCATION
Bachelor of Computer Science (Machine Learning) (Honours) | **The University of Queensland**
DURATION: JAN 2022 – PRESENT   EXPECTED GRADUATION: NOV 2024
SCHOLARSHIP: UQ INTERNATIONAL HIGH ACHIEVERS SCHOLARSHIP (2022), UQ INTERNATIONAL HIGH ACHIEVERS SCHOLARSHIP (2024)

Exchange Student | **University College London**
DURATION: JAN 2023 – JUN 2023
COURSES: MACHINE LEARNING (COMP0142), GAME THEORY (BASC0017), UNDERSTANDING MANAGEMENT (MSIN0048), UNDERSTANDING CITIES (BASC0010)
SCHOLARSHIP: INTERNSHIPS AND GLOBAL EXPERIENCES GRANTS (2023)

EXPERIENCE
Technology Consultant | **Visagio Australia**
NOVEMBER 2023 – PRESENT
- Performing machine learning, data science, data analysis task and gathering insights for client recommendations.
- Worked on time series trading data, constructing LSTM models, and formulating basic trading strategies for enhanced decision-making.
- Collaborated with cross-functional teams to address data mining challenges, facilitating informed decision-making through timely and accurate insights.
- Contributed to BHP's rail optimization by analyzing and building machine learning models on time series data, enhancing operational efficiency in rail systems.
- Designed and implemented ETL pipelines using AWS SageMaker for efficient data processing and analysis. Developed and executed ETL pipelines utilizing Pentaho for streamlined data processing and analysis.
- Leveraged Robotic Process Automation (RPA) to design and implement automated data mining solutions. Specialized in configuring scheduled automation routines, optimizing data extraction processes, and enhancing overall efficiency.

Advisory Committee | **The University of Queensland Tamil Society (UQTAS)**
NOVEMBER 2023 - PRESENT
- Leading efforts to optimize operational costs through strategic tech interventions for increased efficiency and sustainability.

Undergraduate Research Assistant | **The University of Queensland (Ecological Cascades Lab)**
JULY 2023 – PRESENT
- Currently working on Indigenous species detection leveraging camera trap data using state-of-the-art computer vision models with Dr Matthew Luskin (UQ, UC Berkely) and Dr Dan Morris (Google, Stanford)
- Worked on devising data-pipeline to sort and extract camera trap data from Wildlife Insights.

Technological Administrator | **The University of Queensland Tamil Society (UQTAS)**
JANUARY 2023 – NOVEMBER 2023
- Developed and maintained the club's website, optimizing its functionality, user experience, and content to promote effective communication and engagement.
- Identifying and implementing technological solutions to streamline club operations, enhance member experiences, and improve efficiency.
- Core founding member, delegated and organized club events.

Summer Vacationer | **PricewaterhouseCoopers (PwC Sydney)**
DECEMBER 2022 – JANUARY 2023
- Programmed a new data pipeline utilizing PySpark to extract and transform Workday POC files on a daily basis, handling more than a trillion datapoints uploaded globally.
- Initiated synthetic data generation project as confidential file substitutes to improve data security.
- Configured a new cloud sharing client software to share data between territories using WinSCP.
- Migrated the firms operating data from Google to Microsoft SharePoint and created a new Agile health radar for the agile team to monitor agile methodologies and practices globally.
- Worked on PowerShell to pull crucial information from various parts of the firm globally.

Software Engineering Internship (Machine Learning) | **Yuvo**
JUNE 2022 – NOVEMBER 2022
- Engineered and deployed conversational chatbots utilizing NLP and ML techniques, specializing in static conversational interactions and incorporating select advanced dynamic conversations.
- This chatbot serves as a communication medium between customers and the service team at Yuvo, reducing waiting time and operational costs associated with the customer service sector by 50%.
- Engaged in backend development operating on Python and Django framework.

SKILLS
- **Programming Language:** PyTorch, TensorFlow, C++, Python, Java, C, Linux, SQL, HTML, CSS, JavaScript (Vanilla), C#, R, MATLAB, Qiskit, Spark, Microsoft Azure DevOps, AWS, IBM Watson
- **Technical Tools:** Problem Solving, Effective Communication, Agile Methodologies, Project Management, High Performance Computing
- **Conceptual Proficiencies:** Machine Learning, Artificial Intelligence, Deep Learning, Reinforcement Learning, Quantum Computing, Data Structures and Algorithms

PROJECTS & RESEARCH
- *Active Learning:* Currently working on an honours thesis that focusses mainly on "Active Learning for Non-Linear Sampling" with Dr Fred Roosta (UQ, UC Berkely)
- *ELDOME:* A mobile application built to monitor wellbeing of older adults using the principles of social networking.
- *TonyBot:* A conversational chatbot that emulates the speech style of a person using Transformers and Natural Language Processing.
- *Tony:* Designed an AI and NLP-based personal assistant that incorporates therapeutic capabilities.
- *Automatic Birthday Wisher*: Developed an automatic birthday wisher program which sends birthday wishes to contacts via WhatsApp and Instagram.

REFEREES
- karthik@yuvohub.com: Karthikeyan Arivalagan - Head of Engineering at Yuvo Pte Ltd
- p.hillock@uq.edu.au: Dr Poh Wah Hillock - Senior Lecturer at The University of Queensland