

Mehul V. Warade

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Work Experience Summary

- October 2020 – current
 - Research Assistant at Deakin University, Melbourne.
 - Conducting research in a green-house approach towards modern High-Performance Computing (HPC) using low-powered ARM based Single Board Computers.
 - **Technology/Tools:** JavaScript, Linux, GIT (source control), PHP, REST APIs, Docker, MySQL.
- June 2020 – August 2020
 - Embedded Software Engineer at Conran Innovations Pty. Ltd.
 - Developed a high accuracy GPS data collection method in embedded systems to improve and automating the farming in Australia using Single Board Computers and robots.
 - **Technology/Tools:** HTML, REST API, JavaScript, Machine Language, GIT
- March 2020 – May 2020
 - Spark Deakin Ideation Program at Deakin University, Melbourne.
 - Business oriented placement with the focus of developing one's own business. Developed an E-commerce business called "The Fast Shop".
 - **Technology/Tools:** HTML, CSS, JavaScript, API, GIT
- March 2020 – May 2020
 - Software Developer/ Web Developer at Links Project Group Pty. Ltd.
 - Developed an automated data collection and analysis software for marketing and research purposes.
 - **Technology/Tools:** Python, HTML, JavaScript, MQTT, MariaDB.
- November 2019 – December 2019
 - DevOps Engineer at GMO Z.Com Vietnam Labs Center.
 - IT Internship of one month working in a professional environment and development of a leave management software for the company.
 - **Technology/Tools:** YAML, Docker, VMs, Ansible, Vagrant

Skills

- Strong in software programming languages such as **C++, C#, Java, Android Programming, MySQL database, Batch Programming, JavaScript and Python.**
- Tools/ Frameworks – **Visual Studio/ Code, XCode, Unity, Docker, SQL, Yii2 and GIT.**
- Web Development (**CSS, HTML, NodeJS, React, Angular and Php**).
- DevOps (**Ansible and Vagrant**).
- Proficient in remote server management of **Amazon Web Services** and game development in **Unity**.
- Strong base working with **embedded systems** and **clusters management**. Cluster development, computation and management using **Pegasus, Condor, MPI and Montage**.
- Management and development of software for embedded systems such as Raspberry-pi, Arduino, Photon, Odroid and Panda-Board.
- Strong programming, debugging and analyzing skills.

Education and Training

- Honours in Software Engineering with 92% in 2020 from Deakin University, Melbourne, Australia with focus on developing a framework for evaluation of parallel algorithms on clusters.
- On-going Bachelor of Software Engineering with average WAM of 88 in 2021 from Deakin University, Melbourne, Australia.

- High School Education (HSC) with 87.5% in 2017 from Dawale College Akola, Maharashtra, India.

Course Projects and Internships

- **Honours Research:** Developed a platform-independent flexible framework for evaluation of different cluster configurations. The main focus was to analyze their performance as compared to their energy consumption.
- **Career Placement:** Business oriented placement with the focus of developing one's own business. Developed an E-commerce website and business called "The Fast Shop" focusing on better relationships between the customer and the manufacturer.
- **IT Placement:** Developed an automated data collection and analysis software using python for marketing and research purposes. Also, worked with state-of-the-art embedded systems used in agricultural research. Researched and developed a web-software for visualization and analysis of big data collected by the robot.
- **IOT study Tour and Internship in Vietnam):** Collaborated with FPT University in Da Nang, Vietnam to develop a smart remote-controlled Arduino powered car with the obstacle detection system. Also, worked on Day Leave Management System for GMO Z.Com VN Labs in Vietnam as a DevOps Engineer.
- **Game Development in China:** Collaborated with students from Inner Mongolia University, China in developing a working arcade game in 2 weeks as a study abroad program. The game was presented and our team "Shoreso Plan" received an HD grade in the study tour.
- **Developing Internet of Things:** Developed a fully functional robot which is controlled by a web page. This was developed as a group project with a group of three people. Secured HD in the unit.
<https://shroudsit209.herokuapp.com/>

Research Paper and Publications

1. Mehul Warade, Jean-Guy Schneider, and Kevin Lee. 2021. FEPAC: A Framework for Evaluating Parallel Algorithms on Cluster Architectures. In *2021 Australasian Computer Science Week Multiconference (ACSW '21)*, February 1–5, 2021, Dunedin, New Zealand. ACM, New York, NY.
<https://dl.acm.org/doi/abs/10.1145/3437378.3444363>

Personal Attributes

- **Communication Skills:** Articulate communicator with an appreciation for the different communication styles when working with other team members or with colleagues.
- **Honest and Reliable:** Able to take on tasks with a degree of responsibility due to strong morals and ethics, ensuring honesty and reliability.
- **Flexible:** Understands the need to remain flexible to support last-minute demands and changes. Comfortable with changing environments and situations.
- **Time Management:** Dedicated to effectively prioritizing and managing time by allocating tasks and activities and keeping track of them in diaries and daily to-do lists.
- **Leadership Skills:** Working as a manager at my workplace. Gaining appropriate training at workplace has helped me to develop strong leadership qualities and I can easily handle any number of groups.

Referees

- Mr Nguyen Xuan Phong (Branch Manager – Vietnam Labs Vietnam)
 - Email: phongnx@vietnamlab.vn
- Kevin Lee (Tutor and Honours Supervisor):
 - Email: kevin.lee@deakin.edu.au
- Jean-Guy Schneider (Honours Supervisor and Mentor)
 - Email: jeanguy.schneider@deakin.edu.au