KOSMA INOJ AKALANKA

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📞 +358 41 793 0909 ✉ inojakalanka@gmail.com in linkedin.com/in/inoj-akalanka/ 🦃 Portfolio

Education

University of Moratuwa   **Nov. 2016 – July 2021**
Bachelor of Science in Engineering (Honours)   *Colombo, Sri Lanka*

Richmond College   **Aug. 2013 – Aug. 2015**
General Certificate of Education Advanced Level   *Galle, Sri Lanka*

Experience

Synopsys Inc   **June 2021 – Present**
Research and Development Engineer II   *Colombo, Sri Lanka*

- Working at ZeBu (FPGA based emulation platform) Product Engineering Operations and Analytics team.
- Gained expertise in different components of **ZeBu**, **Automations**, **Data Analytics** and **Web Development**.
- Worked on novel, end-to-end, individual/team projects which improved quality and performance aspects of ZeBu. Also supported existing projects and **regression convergence** too.

LE Robotics Pvt Ltd   **July 2019 – Dec. 2019**
Research and Development Engineer - Intern   *Colombo, Sri Lanka*

- Worked on projects related to a middle scale industrial Robotic Arm Development.
- Gained expertise in **Embedded Systems Development**.

Projects

Critical Benchmarks Analysis Report Generator | *Bootstrap, JavaScript, PHP, Python, SQLite*   **June 2023**

- An automation was essential to generate an email report which was done manually by ZeBu Backend Product Verification(PV) team.
- Developed a system with User Interface (UI) where anyone can submit a source excel sheet and generate the email report. It contained charts and tables which summarized findings from analyzing critical benchmark data.
- Utilized **HTML**, **Bootstrap**, **CSS**, **JavaScript** for UI Development and **PHP**, **Python**, **SQLite**, **Jira API for Python**, **internal APIs** to generate email report.

Fractal Branch Integration | *Perforce, C++, Regression testing*   **April 2023**

- Provided support for managing a new ZeBu branch where changelists from the release branch needs to be integrated and build manually.
- Managed an excel sheet, wiki page and teams channel where new builds' info were updated and announced.
- Utilized **Perforce** commands, **C++** knowledge and **Regression testing** while integrating, resolving conflicts, building the executable and submitting changelists. Had to work with different component owners from different time-zones.

Quality Monitoring System (QMS) | *HTML, CSS, Google Charts, Perl, Jira API*   **Oct. 2022**

- A system which monitors benchmark quality was needed for some of the key projects in ZeBu.
- Developed a generalized system which contained a dashboard with analytics in the front-end and set of data-mining scripts and databases in the back-end.
- **HTML**, **CSS**, **Bootstrap**, **JavaScript** and **Google Charts** were used in the front-end. **PHP**, **Python**, **Perl**, **Jira API**, **SQLite** were used in the back-end.

Technical Skills

Languages: Python, C++, C, C#, Perl, HTML, CSS, JavaScript, PHP, SQLite, csh, bash
Developer Tools: Unity, Blender, VS Code, Code Blocks, Visual Studio, Atmel Studio, MATLAB, Scilab, Vim, Jira
Technologies/Frameworks: Linux, Perforce, GitHub, Bootstrap, Symfony, Beautiful Soup, Latex

Publications

T. T. N. Bahavan, S. Navaratnarajah, D. Owinda, I. Akalanka, R. Peiris, and A. D. Silva, "Towards an objective measurement of presence, place illusion, and plausibility illusion in virtual reality using electroencephalography." Virtual Reality, 2023, doi: 10.1007/s10055-023-00815-x.
https://link.springer.com/article/10.1007/s10055-023-00815-x