Pansilu Ashinshana Wijesiri

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PROFILE

Dynamic software engineer with a creative mindset, rapid learning ability, and a strong blend of technical and interpersonal skills. Passionate about overcoming complex challenges and driving continuous improvement.

SKILLS

- **Programming Languages**: Python, Java, JavaScript, C#, PHP, SQL, PL/SQL, Swift, R, Dart, HTML, CSS
- **Frameworks**: Python Flask, Java Swing, Flutter, TailWind CSS, Bootstrap CSS, React Bootstrap
- **DevOps & Tools**: Git/GitHub, BitBucket, CI/CD, Docker, JFrog
- **Machine Learning & Data Science**: PyTorch, Scikit-Learn, Pillow, Matplotlib, GANs, CNNs
- **Soft Skills**: Leadership, Team Player, Public Speaking, Effective Communication, Writing, Time Management

EXPERIENCE

Software Engineer (Intern) at IFS — IFS, Sri Lanka (On-site), *Jul 2023 – Jul 2024*

- *Worked on setting quality gates to ensure code quality in edge cases in the IFS code repository and automated recurring tasks through Python scripts.*
  Developed a new data view (Grid View) for the IFS ERP Application.
  Maintained the IFS Application via Test-A-Rest scripts and provided customer support.

  Technologies: *Python, AngularJS, Docker, TAR, PL/SQL, Syncfusion, IFS ERP*

Digital Media Marketeer — The Nature's Resort, Sri Lanka, *Jan 2022 – Jan 2024*

- *Led digital marketing initiatives to build a reach of nearly **1 million** across platforms, in just 1.5 years of strategic content creation and ad management.*

EDUCATION

Bachelor of Engineering - Computer Software Engineering — University of Westminster / IIT, *Jan 2022 – Apr 2025*

- ***First Class Honours*** *with Industrial Experience*
  Weighted Average: **85%** *(H1=70, P=40) – CGPA: 3.98/4.00*

Foundation Certificate in Higher Education, Computer Software Engineering — IIT (Sri Lanka), *May 2021 – Jan 2022*

- ***Distinction; Dean's Honour Award*** *(2021/2022)*
  Weighted Average: **82.50%**
  Activities: IIEE Computer Society Student Chapter (Vice-Chairperson), Mozilla & FOSS Community at IIT (Vice-Chairperson), Rotaract Club (Event Chairperson)

Vidura College Colombo — Colombo, Sri Lanka, *2008 – 2021*

- *GCE (Ordinary Level):* **8As**
  Activities: Cricket (Team Captain), Badminton, Swimming, Photography Society
  Notable Skills: Team Leadership, Public Speaking, Time Management

Cambridge English Language Assessment Certification — University of Cambridge, *2014 – 2018*

- *Completed all levels* **upto FCE with Distinction**

PROJECTS

Attention-Driven Multi-Scale GAN for Low-Light Image Enhancement — Final Year Project, *Jul 2024 – Present*

- *Project Lead & Developer*
  - Developed a deep learning framework that enhances low-light images with non-uniform lighting using a UNet GAN and Complementary Learning Sub-Network (CLSN) architecture, using **Python and PyTorch**.

- - Integrated Fourier-based texture enhancement and attention mechanisms with a gray map technique, achieving a **98% success rate** over state-of-the-art low-light enhancement methods.
- **DiaTracker – ML-Based Health Assistant** — Project
  Agile Leader & Full-Stack Developer — *Jul 2023*
  - Led the development of a machine learning-based health application that recommends food and exercises based on real-time blood sugar levels while providing a comprehensive health analysis over time through visualization graphs. This solution is built using **Python, Scikit-Learn, PHP, and ReactJS**.
  - The project **won Haxmax 2022** and was presented at **IIT Cutting Edge 2023**.
- **Hitch-Hike – Hitchhiking Mobile App** — Personal Project
  Lead Developer — *Apr 2024 – Present*
  - Designed a ride-sharing platform with real-time ride matching, providing users with a cost-effective travel alternative with **Flutter** and integrated with **Firebase** for secure user management.
- **SwiftUI Weather Application** — Mobile App Project
  Lead Developer — *Feb 2023 – Jun 2023*
  - Created an interactive and dynamic weather application that delivers real-time forecasts, air quality insights, and map-based tourist attraction recommendations, with a resemblance to Apple animations.
  - Implemented **SwiftUI, CoreLocation, and OpenWeather APIs** for tracking across locations.
- **Nature's Resort – SEO-Optimized Tourism Website** — Personal Project
  Web Developer & SEO Strategist — *Mar 2024*
  - Transformed an outdated, non-responsive website into a fully optimized, mobile-friendly platform with enhanced SEO strategies to boost visibility and engagement.
- **Concurrent Systems Simulator** — Java Project
  Developer — *Jan 2025*
  - Built a multi-threaded simulation for banking transactions and resource management using **Java threads, locks, and semaphores** to ensure synchronization and prevent deadlocks.

Honors & Awards

- **Dean's Honor List**: Recognized for **best academic performance** at IIT Academic Awards (Jan 2022).
- **Distinction Award**: Achieved for the Foundation Certificate in Higher Education (Jan 2022).
- **Competitions**: Won Haxmas 2023 by IIT, leaderboard in RealHack 4.0 **(all-island 6/285)**, **open-source contributor of Hacktoberfest 2022** (Digital Ocean), and IEEE Xtreme 16.0 (Top 100 in LK).
- **Junior Prefect**: Vidura College (2020).
- **Best Batsman and School Colours Awards**: Awarded **All-Island Best Batsman** by the Sri Lanka School Cricket Association (SLSCA) (2017/2018) and Vidura College Best Batsman (2015 & 2018).

Volunteer Experience

- **IEEE Computer Society**: Served as **Editorial Vice Chairperson**, Student Branch at IIT (2022 – Present).
- **Mozilla Campus Club**: **Chairperson** of Founder's Mindset Series and club secretarial head (2022 – 2023).
- **Rotaract Club**: Acted as **Project Vice-Chairperson & Blog Team Member** at IIT (2022 – Present).

Extra-Curricular Activities

- **Sports**: Captained the school cricket team for **7 consecutive years** and represented in junior national badminton.
- **Arts**: Active in wildlife and portrait photography with accolades (best-eye, top 10) in school-level competitions.

References

- **Mr. Basuru Balasuriya** — IFS Sri Lanka
  Lead Software Engineer, R&D Finance — *basuru.balasuriya@ifs.com* — *+94 77 152 3518*
- **Mr. Guhanathan Poravi** — IIT (Sri Lanka)
  Senior Lecturer, Grade I — *guhanathan.p@iit.ac.lk* — *+94 77 342 3330*