

Thinakone Louangdy

Skilled software engineer with a focus on integrating data-driven approaches into effective, innovative solutions.

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Relevant Experience

Lead Engineer · CoFarm July 2023 - Present

- Created a streamlined planting and harvest management system to enhance farm operations and align crop output with market demand.
- Designed automated workflows for tasks like planting, watering, and harvesting across multiple locations, ensuring consistency and reducing manual oversight.
- Developed a dashboard providing real-time visibility into crop status, task progress, and inventory, enabling data-driven decision-making.
- Promoted sustainable practices and optimized resource usage across various stages of farm management.

Trainee · Inlisol Oy June - August 2024

- Built data pipelines using Python, Numpy, and Pandas to process raw sensor data from nursing home devices, generating insights into resident health.
- Analyzed vital signs and movement data with Python and Matplotlib to establish health metrics and monitor time spent in various locations.
- Developed Flask APIs and an interactive React.js dashboard for caregivers to track 24-hour health data and observe trends over time.

Consultant · WHO in Lao PDR September 2022 - July 2023

- Conducted data collection using SurveyCTO in rural Lao PDR, gathering vital health information to support research and public health initiatives.
- Prepared and standardized large text datasets in Excel and Python from local dialects, ensuring accuracy for analysis.
- Analyzed findings with NumPy and Matplotlib, and created reports that provided critical insights to the Ministry of Health and Home Affairs for informed policy-making and health interventions.

Intern Developer · Comet Digital Agency September - November 2021

- Developed scalable and maintainable mobile applications using Flutter and CLEAN Architecture, achieving 80% code coverage through unit testing.
- Contributed to upgrading the Trakref app from Flutter 1.x.x to 3.x.x, resulting in improved performance and user experience.
- Created an automated testing application with Appium to boost testing efficiency.
- Utilized Insomnia for API testing and debugging, ensuring seamless integration of backend services.
- Gained expertise in Agile and SCRUM methodologies, enhancing team collaboration and project management skills.

Skills

Programming Languages

JavaScript, TypeScript, Dart, Python, SQL, GraphQL, C#

Libraries & Frameworks

Vue, Nuxt.js, Node.js, Vuetify, TailwindCSS, Apollo, FastAPI, Flask, Pandas, NumPy, Matplotlib, Scikit-Learn, Keras, Selenium, Seaborn

Tools & Platform

Git, GitHub, BitBucket, Vercel, Jupyter, Colab, Docker, HPC, AWS, PostgreSQL, MongoDB

Selected Projects

Apnea Forecasting

Developed predictive models to forecast apnea episodes using Edi signals from medical devices in collaboration with a hospital NICU, enabling early intervention.

Wildlife Conservation Network Analysis

Analyzed Reddit discussions on wildlife conservation using sentiment and network analysis to identify public sentiment trends and key influencers.

Education

Åbo Akademi

Master of Engineering in Data-intensive Intelligence Software systems

National University of Laos

Bachelor of Science in Computer Science

Hobbies

RPG Games, Volleyball, Swimming, Karaoke, Science fictions & novel