THARUKA BANDARA
COMPUTER ENGINEER

EDUCATION

Masters in Computer Science(Partial)

School of Computing,

University of Colombo, Sri Lanka.

BSc(Eng) in Computer Engineering

Faculty of Engineering,

University of Peradenia, Sri Lanka.

GPA - 3.55/4.00

Ananda College, 2005 - 2013
Colombo 10
G.C.E A/L 1A 2B
G.C.E O/L 8A 1C

SOCIAL

in https://www.linkedin.com/in/tharuka-bandara

 https://github.com/tharukab95

CONTACT

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 tharukabandara95@gmail.com

 Silicon oasis, Dubai

CAREER OBJECTIVE

Always be a core team player in achieving project goals by dedicating and committing to the fullest extent.

WORK EXPERIENCE

Surge Global　　　　　　　　　　May 2024 - May 2025
Senior Software Engineer

- Collaborated directly with clients to guide them through technical decisions and required formalities.
- Acted as the emotional and technical backbone of the team during challenges, helping deliver a successful product and uphold the company's reputation.

Technologies: Next.js, Nest.js, Typescript, Git, Services on AWS, Terraform,

Axinom & Sky Group UK　　　　　Sept 2022 - Mar 2024
Senior Software Engineer

- Collaborated as an internal resource at both Axinom Pvt Ltd and Sky Group Limited, contributing to backend developments for Now TV.
- Gained practical experience in building, managing, and maintaining critical components for a leading OTT streaming service.
- Led pivotal efforts in periodically migrating infrastructure to newly established cloud environments with estimated potential cost savings of up to one-third through effective communication and collaboration with various teams at Sky..
- Spearheaded initiatives to streamline CI/CD pipeline, mitigating risks of release failures, and actively implemented improvements.
- Participated in on-call rotations to address production issues promptly and prioritize resolutions based on severity levels.

Technologies: Node.js, GraphQL, Typescript, Serverless services on AWS, Serverless Framework, AWS CDK, Concourse CI, Jest

CodeGen Internation Sri Lanka　　Oct 2020 - July 2022
Software Engineer

- Developed encrypted video streaming service utilizing HLS protocol to securely deliver content to a broad audience while tracking individual user engagement metrics.

Technologies: Angular, Java, FFmpeg, Spring Boot, MySQL, GCP

- Built a payment platform from scratch, integrating multiple gateways to handle transactions across various products/services, adhering to Auth 2.0 standards.

  Technologies: ReactJS, Next.js, Node.js, Express, Payment gateways(Stripe, Global payments, ComBank), GCP, MongoDB

- Architected and led the development of an online grocery retailing system, encompassing customer, rider, and merchant interfaces, along with deployment setup.

  Technologies: Flutter, ReactJS, Next.js, Node.js, Express, Firebase, AWS, GCP, MongoDB, Google Maps Platform

- Designed a cost-effective monitoring architecture, utilizing Grafana, Prometheus, Loki, and Docker to present role-based dashboards, reducing server costs.

  Technologies: Grafana, Prometheus, Loki, Docker, GCP

- Introduced monolithic project management approach, enabling scalable projects with reusable components using Nx.

  Technologies: Nx, Angular, Express

DirectFN Sri Lanka   Feb 2019 - Aug 2019
Software Engineer Trainee

- Contributed predominantly to backend server developments facilitating algorithmic trading within stock market brokerage applications.
- Engineered an algorithm utilizing the 'AKKA' toolkit to elect leaders within distributed backend server clusters, ensuring service consistency.

  Technologies: Java, AKKA, State machines

- Designed and implemented database management systems from the ground up, incorporating comprehensive testing and support for multiple databases.

  Technologies: Oracle, MySQL, H2, Java

PROJECTS

Final year project
SwarmLib-Programming Framework for Robot Swarms

Contributed to designing the behavioral architecture and implementing lower-level behaviors. Developed an algorithm for advanced global behavior, facilitating swarm aggregation. Utilized C++ and Java.

Publications:

- T.Bandara, M.Bandara, N.Adhikari, R.Rageland, I.Nawinne,"A Programming Framework for Robot Swarms". Best paper under the Robotics and Intelligent Systems track MERCon2020 International Multidisciplinary Engineering Research Conference [https://ieeexplore.ieee.org/document/9185206]

- T.Bandara, M.Bandara, N.Adhikari, R.Ragel and I.Nawinne, "SwarmLib: Programming Framework for Swarm Robotics" ESCaPe 2020 Project Symposium [https://bit.ly/ESCaPe2020_Proceedings]