Pinidu Rasanjana

Computer Science Undergraduate

✉ awpinidu66@gmail.com 📞 +94771426484

📍 Colombo, Sri Lanka in linkedin.com/in/pinidurasanjana

○ github.com/pinidurasanjana

Profile

- Passionate computer science undergraduate with a strong foundation in software development and web technologies.
- Skilled in full-stack development, database design, with a keen interest in building scalable and user-centric applications.
- Experienced in designing and implementing efficient software solutions through academic projects and personal initiatives.
- Continuously exploring emerging technologies to enhance problem-solving and innovation in the tech industry.
- Dedicated to professional growth, eager to contribute to impactful projects in a dynamic and collaborative environment.
- Enthusiastic about cloud computing, eager to explore and work with cloud-based technologies for scalable and efficient solutions.

Education

BSc (Hons) Computer Science   2023 – Present
Informatics Institute of Teachnology(IIT)

GCE Advanced Level   2008 – 2022
R/EMB/President's College

Technical Skills

Programming Languages   **IDES**
   Java, JavaScript, Python   IntelliJ, Visual Studio, NetBeans

Web Technologies   **Database**
   React.js, React Native, Node.js, HTML, CSS   MySQL, Firebase

Certificates and Achievements

Haxmas Code Golf | 2025 - Second Runner's Up
Organized by the RostractClub of IIT

Projects

AgroVital - Al-Based Intelligent Farming System
www.agrovital.lk
<div align="right">Completed</div>

- Developed an Al-powered farming assistant to enhance crop yield and promote sustainable agriculture.
- Designed and implemented a data-driven recommendation system for optimized crop planning and resource management.
- Integrated real-time weather data and soil analysis to provide actionable insights for farmers.
- Utilized machine learning models to detect crop diseases and suggest preventive measures.
- Built a user-friendly web platform to deliver Al-driven farming solutions efficiently.
- Gained hands-on experience in cloud computing, Al integration, and scalable system design.
- Technologies: React Native, Node.js, Firebase, OpenCV, TensorFlow

State Agent Client-side Web Application
<div align="right">Completed</div>

- Developed a React-based property search platform inspired by Rightmove.
- Implemented filters for type, price, bedrooms, date added, and postcode area.
- Designed an interactive UI with React components and widgets.
- Managed property data using JSON for efficient search retrieval.
- Created a responsive results page displaying property details and images.
- Integrated an image viewer and React Ul Tabs for detailed property views.
- Developed a favorites feature with local storage for persistent data.
- Technologies: React.js, JavaScript, JSON, CSS, Bootstrap

Real-Time Event Ticketing System with Producer-Consumer Implementation
<div align="right">Completed</div>

- Built a multi-threaded ticketing system handling real-time ticket releases and purchases.
- Implemented Producer-Consumer pattern for efficient synchronization and data integrity.
- Applied OOP principles (inheritance, polymorphism, encapsulation) for a modular design.
- Addressed concurrency challenges like race conditions and deadlocks.
- Developed a frontend (React.js) and backend (Node.js) with RESTful APIs.
- Integrated logging, error handling, and stress testing for system reliability.
- Technologies: Node.js, OOP, React.js

Languages

English   ● ● ○ ○ ○

References

Ms.S.Baladharshana Sathianathan,
Former Course Director Aquinas College of Higher Studies Senior Lecturer (London Graduate School) Britannia Education Services and Tuition Lecturer/Assistant Lecturer (University of Bolton and Wigan Leigh Campus) World Bank IFC Business Edge Trainer.
balasathianathan5@gmail.com, 0770-137368

Sahan Priyanayana, *Lecturer - School of Computing IIT, Colombo 06,*
PhD (Reading)(UoM), B.Sc. (Hons) in Elect. Eng (UoM) AM(IESL), GSM(IEEE)
sahan.p@iit.ac.lk, +94765293766