NADEESHA NETHMINI EPA
Software Engineer

CONTACT DETAILS

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GITHUB:
https://github.com/NadeeshaEpa

PORTFOLIO:
https://nadeeshaportfolio.vercel.app/

TECHNICAL SKILLS

- **Programming Languages:**
  C/C++, PHP, Java, Kotlin, Scala, Python, R/Octave, Dart, JavaScript, Prolog

- **Web Development:**
  HTML, CSS, ReactJS

- **Frameworks and Tools:**
  Spring Boot, NodeJS/Express, Riverpod, Tailwind

- **Databases:**
  MySQL, PostgreSQL, MongoDB

- **Design Tools:**
  Canva, Figma, UML (Diagrams.net)

- **Other Skills:**
  Git/GitHub, Agile Methodologies

SOFT SKILLS

- Problem-solving
- Critical thinking
- Teamwork and collaboration
- Time management
- Communication skills
- Adaptability
- Leadership
- Creativity
- Attention to detail
- Organizational skills

OBJECTIVE

Aspiring computer scientist with a strong academic foundation and diverse technical expertise in cloud computing, software development, and innovative application design. Skilled in building predictive models, crafting scalable solutions, and optimizing system performance. Eager to leverage problem-solving abilities, collaborative research experience, and a passion for technology to drive impactful advancements in dynamic, innovation-focused environments.

WORK EXPERIENCE

Researcher
CLOUDNET, University of Colombo School of Computing (UCSC) Sri Lanka
May 2024 - Present

- Built predictive models for optimizing workloads in cloud environments.
- Enhanced system performance using statistical models.
- Developed forecasting techniques for resource demands to enhance workload management and efficiency
- Solved challenges in VM migration and resource allocation effectively.
- Contributed to scalable cloud solutions through collaborative research efforts.

Software Engineer (Internship)
Creative Software, Sri Lanka
December 2023 - May 2024

Mobile Application Development

- Developed a task management app integrated with IFS system.
- Added offline support using ObjectBox for uninterrupted accessibility.
- Improved app performance with Riverpod for state management.
- Designed UI with a dynamic image framework for orientation adaptability.
- Enabled image retrieval through Firebase integration for better functionality.

Web Application Development

- Automated Excel processing system using React and Spring Boot.
- Created APIs for validating and uploading data to IFS database.
- Designed progress bar for real-time file upload monitoring.
- Integrated charts to display success and error rates visually.
- Generated downloadable Excel reports for detailed error tracking.

HIGHER EDUCATION

B.Sc. (Hons) in Computer Science (UG)
University of Colombo School of Computing (UCSC) Sri Lanka
May 2021 - Present

- **GPA: 3.90 / 4.00**

General Certificate of Education Advanced Level Examination
Sri Lanka
2019
- **Physical Science Stream**
  Achieved 3 A Passes

PROJECTS

VentureVerse (June 2023 - October 2023)

- Developed an entrepreneur-investor connecting platform with comprehensive features such as project listings, video conferencing, and analytics.
- Frontend developed in ReactJS with Tailwind and Material UI.
- Backend developed in Java Spring Boot.
- Designed a PostgreSQL database for seamless data management.
- Integrated video conferencing API and conducted thorough system testing using Selenium.

FAGO: Online Gas Ordering System (June 2022 - May 2023)

- Designed and built an MVC framework in PHP.
- Designed all the user interfaces using HTML/CSS and JS without using any frameworks.
- Created dynamic Google Maps integration for shop locations and implemented a secure payment gateway using Stripe.
- Developed efficient email services and tested the system rigorously with Selenium.

ToDo App (August 2023 - November 2023)

- Developed a task management app for Android 5.0+ using Flutter and Dart+SQLite.
- Features include task creation, categorization, prioritization, reminders, and data synchronization.

JobSync: A Smart Platform for Job Seekers and Employers (May 2024)

- Designed an app connecting job seekers and employers with features like job filtering, application submission, and interview scheduling.
- Developed using Flutter and earned a Top 8 finalist position in the MAdhack 2024 competition.

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

Finalist, All-Island MADHACK Inter - University Hackathon (2024)
Recognized for innovative problem-solving and technical excellence.

Director's List Awardee, University of Colombo School of Computing
Honored for academic distinction in the 2nd and 3rd academic years.

Certificate of Merit, ReidXtreme 2021
Acknowledged for exceptional performance in competitive programming.

Participant, FreshHack 2.0
Engaged in hackathon, showcasing creativity and teamwork skills.

Member, Rotaract Club, University of Colombo School of Computing (2021 - 2023)
Contributed to community service projects and leadership initiatives.