Samudi Perera

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SUMMARY

- Dedicated, organized, and creative **Final-year Computer Science undergraduate** with **1.5 years of experience** delivering end-to-end features in production web applications. Seeking **Software Engineer roles** to build scalable, user-friendly products with strong teamwork and ownership.

EDUCATION

- **Bachelor of Science (Hons.) in Computer Science**   *2022 – 2026*
  University of Colombo School of Computing
    - Reading GPA: 3.8456
    - Director's List - 1st year 2nd semester, 2nd year 1st semester, 2nd year 2nd semester, 3rd year 1st semester

- **Diploma in Information Technology**   *2021 - 2022*
  University of Colombo School of Computing

- **GCE Advanced Level**   *2018 – 2020*
  Gothami Balika Vidyalaya
    - 1A 2Bs (Information and Communication Technology, Combined Mathematics, Physics)

EXPERIENCE

- **Part-time consultant, Software Engineer**   *June 2025 – Aug 2025*
  VizuaMatix

  `Next.js` `TypeScript` `TailwindCSS` `Ant Design` `SpringBoot` `PostgreSQL`

    - Owned assigned feature areas end-to-end from requirement clarification to release readiness within a financial risk management system (FRMS).
    - Built responsive UI screens and reusable components aligned with existing design patterns.
    - Built Spring Boot (JPA) APIs with PostgreSQL and integrated end-to-end flows with the Next.js frontend.
    - Improved production readiness by resolving high-priority defects, strengthening stability, and ensuring smooth handover to QA.

- **Intern, Software Engineer**   *Nov 2024 – Apr 2025*
  VizuaMatix

  `Next.js` `TypeScript` `TailwindCSS` `Ant Design` `SpringBoot` `PostgreSQL` `Vue.js`

    - Contributed to four enterprise-scale projects in the financial and tourism sectors, using Next.js, Vue.js, SpringBoot, and PostgreSQL.
    - Designed and improved dashboards, admin panels, and public-facing screens with a usability-first approach.
    - Integrated frontend and backend with role-based authorization, and supported performance and HTTPS-related improvements.
    - Supported releases by collaborating with QA/BA/DevOps, proactively communicating blockers and fixing critical issues under tight deadlines.
    - Created onboarding and support documents and contributed to knowledge transfer for new interns.

- **Pre-Intern, Software Engineer** *May 2024 – October 2024*
  VizuaMatix
  `Vue.js` `Vuetify` `SpringBoot` `PostgreSQL`

  - Contributed to the development of a telecom loyalty program web application by delivering frontend features using Vue.js and Vuetify, building responsive UI components and improving usability across key user flows.
  - Integrated frontend functionality with existing backend APIs and ensured reliable data handling and smooth user experience.
  - Participated in UI testing, bug fixing, and iterative enhancements, helping improve stability and performance of the application.

- **Undergraduate Teaching Assistant** *June 2025– March 2026*
  University of Colombo School of Computing
  `Computer Systems` `UI/UX`

  - Conducted tutorial sessions for both modules, explaining core concepts using structured examples and guided problem-solving.
  - Supported students through guidance, feedback, and issue resolution—strengthening communication and mentoring skills.

PROJECTS

- **Wandr. - Personalized Travel Guide** *Jun 2024 – Oct 2025*
  `Next.js` `TypeScript` `TailwindCSS` `AntDesign` `FastAPI` `SpringBoot` `PostgreSQL`

  - Built a full-stack travel platform with personalized route suggestions, interactive maps, and journaling features.
  - Implemented public pages and UI system (landing, blogs, plans, auth) and delivered the end-to-end admin web application with core management modules.
  - Integrated external services for place discovery and AI-generated descriptions and categorization based on user preferences.
  - Added a local-products marketplace with business profiles and basic advertisement features.

- **Stay Safe - Quantine Centre Management System** *Jun 2023 – Oct 2023*
  `React` `MongoDB` `Node.js` `Express`

  - Developed a web app for quarantine center operations including staff, equipment, and patient management.
  - Implemented real-time notifications and a public section to share center services and updates.

- **AkaHUB - Student Collaboration and Connection Platform** *Jun 2023 – Apr 2024*
  `HTML` `CSS` `JavaScript` `PHP` `MySQL`

  - Built a student-focused LMS with notifications, event calendar, and content uploads for learning materials.
  - Implemented a social-media-style event promotion module for university clubs with real-time likes and comments, academic material upload sections, and student profiles and settings.

- **Undergraduate Research Project** *June 2025 – Present*
  `HCI` `Experiment Design` `Data Collection` `Data Analysis`

  - **Title -** Bridging Cognition and Design: A Framework for Real-Time Cognitive Load Detection and Adaptive Web Interfaces
  - Designed and ran experiments to study cognitive load during e-commerce tasks.
  - Collected and processed interaction data; analyzing patterns and documenting findings.

SKILLS

- **Frontend Development**: React, Next.js, Vue.js, TailwindCSS, Ant Design, HTML, CSS

- **Backend Engineering**: Spring Boot, FastAPI, Node.js, Express

- **Database Management**: PostgreSQL, MySQL, MongoDB

- **Programming Languages**: Java, JavaScript, TypeScript, Python, PHP

- **Tools and Design**: Git, GitHub, GitLab, Postman, Figma

- **Soft Skills**: Ownership, Accountability, Communication, Collaboration, Time Management, Adaptability

COMPETITIONS

- **TechTriathlon 3.0 – Semi Finalist** (Designathon, Hackathon & Datathon) *2025*

- **Cre8X – Winner** (Designathon) *2024*

- **Hackaholics 6.0 – Finalist** (Ideathon & Designathon) *2024*

- **Codefest Algothon 2024 – Finalist** (Competitive Programming Hackathon) *2024*

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

- **Chairperson** *May 2024 – May 2025*
  ACM Student Chapter of UCSC
    - Meetup Coordinator: Aug 2023 - May 2024
    - Marketing Team Member: Nov 2022 - Aug 2023

- **Member** *Nov 2022 – Aug 2023*
  IEEE Student Branch of UCSC

REFERENCES

- **Mr. Theekshana Kumara** *ceo@vizuamatix.com*
  CEO, VizuaMatix, Sri Lanka *+94773360896*

- **Dr. Dilrukshi Gamage** *dgs@ucsc.cmb.ac.lk*
  Senior Lecturer (Research Supervisor), University of Colombo School of Computing *+94718365653*