Amandi Udawatta

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SUMMARY

- Dedicated, organized, and creative fourth-year Computer Science undergraduate at the University of Colombo School of Computing, specializing in backend development and database management. Actively seeking to deepen my expertise in both Software Engineering and Machine Learning.

EDUCATION

- **University of Colombo School of Computing** *2022 – 2026*
  Bachelor of Science (Hons.) in Computer Science
  - Reading GPA: 3.6348
  - Director's List - 1st year 2nd semester, 3rd year 1st semester

- **Devi Balika Vidyalaya** *2018 – 2020*
  GCE Advanced Level
  - AAA (Combined Mathematics, Physics, Chemistry)

- **Panadura Balika Maha Vidyalaya** *2012 – 2017*
  GCE Ordinary Level
  - 9 A's (Core Subjects, Information and Communication Technology, English Literature, Tamil)

EXPERIENCE

- **Part-Time Consultant, Software Engineer** *June 2025 – August 2025*
  VizuaMatix
  - Full-Stack Development: Continued development and maintenance of a financial risk management system (FRMS) by implementing remaining major backend functionalities, enhancing Spring Boot APIs for complex database interactions, and resolving bugs across both the frontend and backend.
  - System Stability: Identified and fixed critical issues in existing modules, significantly improving system reliability and preparing the application for production deployment.

- **Intern, Software Engineer** *Nov 2024 – Apr 2025*
  VizuaMatix
  - Full-Stack Development: Built core features for three enterprise projects across the financial and tourism sectors, using Spring Boot, Next.js, Vue.js, FastAPI, and PostgreSQL. Successfully adapted an existing system for a new client, leading the backend implementation and taking responsibility for the deployment process and UAT release as part of a two-member team.
  - Key Module Implementation: Developed major components, including the Audit Trail, Dashboard, Configuration Management, and a complex Graphical Analysis module for visualizing financial trends.
  - System Integration & Database: Managed PostgreSQL operations, creating custom views, supporting schema changes, and writing efficient queries. Implemented backend-to-backend communication for an approval workflow, integrating the Spring Boot service with a FastAPI microservice.
  - Deployment & Engineering Practice: Gained hands-on expertise in JAR building and deployment, resolving hurdles like HTTPS setup and CORS errors, and embedding frontend assets for seamless integration. Authored and maintained a comprehensive API Specification Document to streamline QA and future maintenance.

- **Pre-Intern, Software Engineer** *May 2024 – September 2024*
  VizuaMatix
  - Backend & Database: Developed and maintained a Backend and Backend for Frontend (BFF) using Spring Boot, and designed a PostgreSQL database for a key loyalty program component, ensuring secure API integration and efficient data management
  - Quality Assurance (QA): Contributed to QA efforts for an ongoing project at a government institution using FastAPI, focusing on testing, bug fixing, and improving system performance and reliability.

PROJECTS

- **Wandr.**   *Jun 2024 – Present*
  Tech Stack: Spring Boot, PostgreSQL, Python, Fast API, NextJS, Tailwind CSS, Flutter
  - Developed an all-in-one travel app with personalized route suggestions, interactive maps, and travel journaling.
  - Utilized Google Places API and OpenAI for detailed place information, descriptions, and activity categorization based on user preferences.
  - Created an e-commerce platform for local products and tools for businesses to manage profiles and target advertisements.

- **Pawfect Care**   *Jun 2023 – Apr 2024*
  Tech Stack: HTML, CSS, JavaScript, PHP, MySQL
  - Created a pet care centre management system, facilitating appointments, daycare, and medical records management.
  - Allowed staff members to securely access and manage data, while administrators could generate comprehensive reports.

- **BookWorm**   *Jun 2023 – Oct 2023*
  Tech Stack: NodeJS, Express, React, MongoDB
  - Developed a comprehensive library management system, allowing efficient management of books, authors, and genres.
  - Implemented user authentication using Passport.js, enabling secure access for librarians and members.

- **Breast Cancer Diagnosis using Machine Learning**   *Aug 2024 – Aug 2024*
  Tech Stack: Python, TensorFlow, Keras, scikit-learn, Matplotlib, Seaborn
  - Built an Artificial Neural Network using TensorFlow to classify breast cancer tumors.
  - Implemented a complete data pipeline process and evaluated model performance with metrics like ROC curve, AUC score and confusion matrix.

COMPETITIONS

- **InspiHER{tech} v2.0 (Signal Labelling for Blue Whale Sound Detection) – Finalist**   *Jan 2024*
  MATLAB, Maths and Coding Hackathon

- **Duothon 3.0 – Winner**   *Feb 2023*
  Web Development Hackathon

- **Codefest Algothon 2023 – Finalist**   *Jan 2024*
  Competitive Programming Hackathon

- **Codefest Algothon 2022 – Finalist**   *Jan 2023*
  Competitive Programming Hackathon

- **SLIoT Challenge 2023 (Automated Traffic Control System) – Semi Finalist**   *Dec 2023*
  IoT Competition

- **Codefest Designathon 2025 – Finalist**   *Aug 2025*
  Designathon

- **Freshhack 3.0 – Finalist**   *Jan 2023*
  Competitive Programming Hackathon

SKILLS

- **Programming Languages**
  JavaScript, Python, R, C, C++, PHP, HTML

- **Frameworks and Technologies**
  Spring Boot, Fast API, PostgreSQL, MySQL, MongoDB, NodeJS, Express, React, CSS

- **Machine Learning and Data Science**
  TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn

- **Tools and Platforms**
  Git, GitHub, GitLab, Postman, Figma
- **Soft Skills**
  Communication, Research, Creative Thinking, Collaborative Teamwork, Time Management

VOLUNTEERING AND POSITIONS OF RESPONSIBILITY

- **ISACA Student Branch** *2023 – 2024*
  Digital Media Manager - Executive Committee
    - Managed digital content and social media strategies to enhance the branch's online presence.
- **IEEE Student Branch** *2022 – 2023*
  Publicity Team Member
    - Contributed to publicity campaigns for IEEE events, enhancing event visibility and participation.
    - Participated in IEEE Day 2022 (Design Team), MADHACK 2.0 (Marketing Team) and IEEE Andaharaya'23 (Marketing Team).

EXTRA-CURRICULAR ACTIVITIES

- **Scrabble**
  Fresher's Tournament (1st Runners Up), Inter-faculty Tournament (1st Runners Up)

CERTIFICATIONS

- **Supervised Machine Learning: Regression and Classification** *Aug 2024*
  Coursera
- **Introduction to Artificial Intelligence (IBM)** *Dec 2022*
  Coursera

REFERENCES

- **Mr. Theekshana Kumara** *theekshana@vizuamatix.com*
  CEO, VizuaMatix *+94 773360896*
- **Mrs. Sanduni Thrimahavithana** *sst@ucsc.cmb.ac.lk*
  University of Colombo School of Computing (UCSC) *+94 717584077*