

ASHEN SHANUKA

SOFTWARE ENGINEER

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PROFILE

Results-driven Software Engineer with a specialized IT degree in Software Engineering, demonstrating expertise in developing scalable solutions across 20+ international markets as a Level 1 Fiverr freelancer. Published researcher in technology implementation, backed by practical experience through software development internship. Combines full-stack development expertise with analytical problem-solving capabilities, delivering robust and innovative applications while nurturing strong client partnerships. Leverages research expertise and hands-on development skills, dedicated to driving technological innovation and creating lasting impact in the software industry.

TECHNICAL SKILLS

Java	NodeJS	GIT
SpringBoot	Flutter	MERN
PHP	HTML/CSS/JS	.NET
Python	Linux	C++
MySQL	REST API	Figma
React JS	AWS/Azure	CI/CD

NON TECHNICAL SKILLS

Communication skills	Time management	Problem solving
Team player	Adaptable	Creativity
Leadership skills	Dedicated	Quick learning skills

EDUCATION

BSc (Hon's) in Information Technology

2020 - 2024

- Faculty of Science
- University of Kelaniya

PROJECTS

- Analysing the impact of prompt engineering on efficiency, code quality, and security in crud application development | Final year Research project**
 - Developed a pharmaceutical CRUD applications using LLMs like GitHub Copilot, ChatGPT, and Claude.
 - Assessed code quality using tools such as SonarQube, CodeFactor, and DeepSource.
 - Analyzed the role of prompt engineering in improving development efficiency, code quality, and security.
 - Research published at DRC International Conference.
- AI vs. Real Face Classification with CNNs**
 - Utilized Python, TensorFlow, and Keras to develop a CNN model for classifying AI-generated and real faces.
 - Submitted for research publication.
 - Developed a CNN to classify real and AI-generated faces with 82% accuracy
- Project Bus Management System**
 - Developed a bus tracking system utilizing drivers' smartphones and IoT devices connected to the vehicle.
 - Used bus driver apps, IoT devices, and API servers for real-time tracking and management.
 - Technologies employed include Spring Boot for backend development, Angular for frontend interface, and various AWS cloud services for scalability and reliability.

- **Project: My Car**

- Developed a comprehensive vehicle tracking Android app in Java, leveraging IoT devices and AWS services for real-time monitoring, analytics, and data storage.
- Features include movement tracking on maps, history playback, service center management, repair tracking, insurance and license renewal reminders, emission test scheduling, wheel alignment checks, fuel consumption records, and car rental functionalities.

- **Web & Mobile Application for Mental Health & Counselling | Level 3 Software Project**

- Developed a platform connecting counsellors and clients, featuring appointment booking, blogs, and a journal website.
- Integrated separate web platforms for counsellors, clients, and admin portals.
- Utilized HTML, SCSS for frontend, PHP, JavaScript for backend, and Flutter for mobile app development, with a MySQL database.

- **Website for Ice Cream Store | Level 2 Software Project (Group)**

- Created a website for an ice cream store with features such as ice cream listing, purchases, and an admin panel.
- Implemented using PHP, HTML, CSS, JavaScript, and MySQL for database management

- **Hotel Management System Desktop Application | Level 1 Software Project (Group)**

- Developed a hotel management system desktop application with features including hotel room booking, room addition, and more.
- Utilized Java for application development and MySQL for database management.

- **Data Annotation Project : A Collaborative Group Project with the University of Melbourne**

- Contributed to a group project collaboration between the University of Kelaniya and University of Melbourne aimed at training a machine learning model to identify various types of trash and garbage.
- Engaged in data annotation tasks to provide labeled datasets for model training.

- **Ecommerce Website and Android App**

- Created a complete e-commerce solution with an admin panel for management.
- Employed HTML/CSS for frontend and Laravel for backend development, with a MySQL database.
- Flutter Mobile app development

- **Face Detection and Employee Identification Integration for Qrealty Real Estate Agency System - Australia (Freelance Project)**

- Implemented a system for registering and detecting faces of employees using a machine learning model.
- Utilized Python, Flask, and TensorFlow for development.

- **Client QR Identity Card Generating Script for Gold's Gym - United States (Freelance Project)**

- Developed an Adobe Illustrator plugin using JavaScript to generate client identity cards with QR codes and create identity card images based on provided templates.

- **T-shirt Designs and Text Customization Automation Project – Malaysia (Freelance Project)**

- Developed an Adobe Illustrator plugin using JavaScript to automate T-shirt size generation, text customization, and saving finalized designs.

PUBLICATIONS

- Published research titled "*Analyzing the Impact of Prompt Engineering on Efficiency, Code Quality, and Security in CRUD Application Development*" in The Journal of Desk Research Review and Analysis, indexed in Sri Lanka Journals Online (SLJOL).
- Featured in both the journal and the proceedings of the 2nd International Multidisciplinary Desk Research Conference 2024, hosted by the Faculty of Computing & Technology, University of Kelaniya, Sri Lanka.

PROFESSIONAL EXPERIENCE

Intern Software Engineer | Nimbus Ventures (Pvt) Ltd Aug 2023 - Mar 2024

- Developed Android applications that interact with cloud-based location services and integrated with IoT devices.
- Upgraded Android apps to ensure compatibility with new Android versions.
- Developed responsive web applications with Springboot,Angular framework.
- Worked in a scrum agile delivery environment.
- Exposure in MySQL , H2 data base management.
- Implemented RESTful API services.
- Worked with AWS services(Cognito,Simple Storage Service,Lambda)
- Designed app UIs with Figma, creating icons using Adobe Illustrator, and automating tasks with JavaScript scripts.

Freelance Developer | Fiverr Level 01 Dec 2019 - Present

- Worked on over 50 projects for clients from 20+ countries.
- Developed various automation scripts for both software development and graphic design projects.
- Skilled in web development and bug fixing using React, Node.js, and WordPress.
- Experienced in creating 2D and 3D graphics and animations.
- Experienced in mobile app development using Flutter and Java.

EXTRA CURRICULUM

- Sports:** Former member of school swimming team
- Coordinating:** Coordinator of HackX Junior 5.0 | 2022 hackathon programme
- Societies :** Member of IMSSA Media Unit
Committee member of IMSSA

REFERENCES

- Mr. Pubudu Yasanath
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Nimbus Ventures (Pvt) Ltd
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- Prof. Janaka Wijayanayake
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