

NIPUN AMARAKOON

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PROFESSIONAL SUMMARY

Highly skilled Software Engineer with experience in designing and developing full-stack web applications. Proficient in Java Spring Boot, React, and SQL with expertise in microservices architecture and cloud deployment using AWS. Passionate about delivering scalable, innovative, and efficient solutions that drive business transformation.

WORK EXPERIENCE

Provelt

Apr 2025 – Present

Freelance Lead Developer

- Leading the end-to-end technical development of a gamified habit-tracking mobile app using React Native and Expo, with an emphasis on scalable architecture and clean code practices.
- Architecting core features such as photo-based habit verification and social leagues to drive user engagement and stand out in the market.
- Collaborating with the founder and UI/UX designer to align technical development with business goals and support the creation of investor materials such as pitch decks and financial projections for seed funding.

A6X LLC

Mar 2025 – Present

Freelance Full-Stack Engineer

- Developing scalable microservices for an AI-powered e-commerce platform using Spring Boot, Kafka, and Redis, reducing API response times by 40% through caching.
- Implementing event-driven architecture with Kafka to process real-time orders
- Building a Python/FastAPI service for AI-driven product recommendations.

UK based Client

Jul 2023 – Aug 2023

Freelance Software Developer

- Developed web scraping program to navigate complex HTML and JavaScript-based websites using the Scrapy Python library.
- Collaborated with clients to understand and analyze user requirements, designing tailored software solutions that meet specific data needs and business objectives.

Tunclab Solutions

Apr 2021 – Dec 2021

Software Engineer

- Collaborated in the development of an ERP system tailored to SMES, developed using Node.js, and AWS services, including Lambda and Dynamodb.
- Developed and optimised RESTful APIs for inventory and billing management, and worked with the front-end team to integrate features using Angular.

Tunclab Solutions

Apr 2020 – Apr 2021

Software Engineer Intern

- Contributed to the development of a mobile budgeting application built with React Native and Node.js, focusing on building reusable UI components and integrating REST APIs.
- Gained hands-on experience with AWS services such as S3 and API Gateway, assisting in setting up secure and scalable infrastructure.
- Collaborated with senior developers in writing unit tests and performing bug fixes, ensuring app stability and smoother user experience.

PROJECTS

URL Shortener | AWS Lambda, API Gateway, DynamoDB, Redis (ElastiCache), VPC, S3, AWS CDK, CloudFormation, Java, JavaScript

- Built a serverless URL shortener with distributed caching using Redis and persistent storage in DynamoDB.
- Automated infrastructure provisioning using AWS CDK, following IaC and AWS best practices.
- Hosted a static web frontend on Amazon S3 and implemented a TTL caching strategy for improved performance.

My Portfolio | React.js, JavaScript, Bootstrap 5, CSS

- Designed and deployed a responsive portfolio to represent my excellence.

Automated Detection of Schizophrenia Patients | Python, CNN, ResNet50, SVM NumPy, Matplotlib

- Developed a machine learning model to diagnose schizophrenia based on EEG spectrogram images.
- It investigates the impact of utilizing different groups of EEG signals with a hybrid model consisting of ResNet50 and SVM.

Traffic Fine Penalty Control Web Application | Java, Spring MVC, Spring Security, JSP, Hibernate, Thymeleaf, CSS, Bootstrap, and PostgreSQL

- Developed a proposed web traffic penalty control system for Sri Lanka Police.

Laboratory Appointment System | Java, Jersey, MySQL, JavaScript, jQuery, AJAX, Bootstrap, W3CSS

- Developed a web application to manage laboratory appointments.

Handy Man Android Application | Java, Firebase

- Developed a mobile application which facilitated the buying and selling of handyman services with in-app messaging service.

TECHNICAL SKILLS

- **Programming Languages:** Java, SQL, Python, Node.js
- **Frameworks & Technologies:** Spring Boot, AWS, Microservices, Hibernate
- **Frontend Development:** React.js, JavaScript, Bootstrap 5, Tailwind, W3CSS, CSS 3, HTML 5
- **Tools & Platforms:** Docker, Kubernetes, Kafka, Git, Jira
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase
- **Testing:** JUnit, Mockito, Selenium, Testcontainers

EDUCATION

MSc. In Advanced Computer Science [Commendation]

2022-2023

University of Northumbria, UK

Achievements: Successfully led a team of 6 in an MSc project to develop an event management application, coordinating tasks and fostering collaboration, resulting in on-time delivery and top-tier academic recognition.

BSc. (Hons) in Software Engineering [1st class]

2020-2021

Cardiff Metropolitan University, UK

Higher Diploma in Software Engineering

2017-2020

Java Institute for Advanced Technology, Sri Lanka

Certificates

AWS Certified Cloud Practitioner

Feb 2025