

Nipun Himash Wedisinghe

Software Engineer

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SUMMARY

A computer science graduate with First-Class Honours, specializing in artificial intelligence and machine learning. Currently working as a software engineer, developing practical AI-driven solutions, including applications of large language models. My research interests span Explainable AI, medical image analysis, and machine learning verification, and I am eager to pursue advanced research under expert academic supervision.

EDUCATION

University of Sri Jayawardenepura

BSc (Honours) in Computer Science (First class)

Sri Lanka

Jan. 2019 - Aug. 2023

ESoft metro campus

Diploma in Information Technology

Sri Lanka

May. 2019

PUBLICATIONS

Explainable AI for Early Lung Cancer Detection: A Path to Confidence

Apr. 2024

Conducted an undergraduate research project aimed at enhancing the system for explaining chest X-ray images by integrating multiple explainable AI methods. Provided visual-based explanations for predictions made by a trained CNN-based classification network, enabling accurate detection of lung cancer.

DOI: [10.1109/ICARC61713.2024.10499787](https://doi.org/10.1109/ICARC61713.2024.10499787)

AWARDS

Academic Excellence Award - University of Sri Jayawardenepura

Aug. 2023

Awarded for obtaining the highest GPA and graduated as the top of the batch of BSc (Hons) in Computer Science degree offered by the Department of Computer Science.

EXPERIENCE

Full Stack Engineer II

Nov 2023 - Present

at [Skillfully](#)

USA

- Engineered AI-based software products leveraging large language models, integrating AI into web applications using OpenAI and DeepL. Utilized front-end frameworks ReactJS, NextJS with TypeScript, along with Zustand for client-side state management.
- Skilled in direct client collaboration for requirements gathering and throughout the whole product life cycle to deliver tailored solutions.
- Server-side development with NodeJS, ExpressJS, and NestJS. Utilizing PostgreSQL with Prisma ORM.
- Experienced in creating and deploying CI/CD pipelines with GitHub Actions. With hands-on knowledge in Docker and optimization of Docker containers.
- Utilizing AWS serverless architecture (AWS Lambda, AWS Amplify).
- Deployment experience with AWS ECS and ECR with AWS Fargate and AWS EC2.
- Built python task Schedulers with celery and bullMQ
- Experienced in writing E2E testing with Cypress.

Trainee Software Engineer

Feb. 2023 – Aug. 2023

at [99X](#)

Sri Lanka

- Developed an enterprise-grade commercial compliance management application, leveraging frontend web frameworks React, Angular, and AngularJS. Architected AWS Serverless solutions, enhancing scalability and efficiency.
 - Introduced an innovative method to resolve lambda secrets at runtime, enhancing security by minimizing exposure during function execution.
 - Experienced with NodeJS for server-side programming and managed NoSQL databases (MongoDB/DynamoDB). Utilized AWS services (EC2, S3, Lambda, Cognito, Fargate) to optimize application performance.
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- Engineered pipelines on Azure DevOps, streamlining deployment processes. Automated API testing with Postman and E2E testing with Cypress, ensuring robust quality assurance.
- Optimized DB migration scripting and collaborated closely with product owners to gather requirements. Crafted user stories and updated existing ones as per client needs.

PROJECTS

Flex Flags [Visit Site](#) 2025 – Present

- Developed a robust feature flag management system for dynamic control of application features.
- Frontend: Built using Next.js (App Router), hosted on Vercel for seamless deployment.
- Created an [NPM package](#) for easy integration with web applications.
- Implemented Role-based flags and user-level flag visibility for granular control.
- Achived Transport layer data encryption with RSA ensuring secure flag data transmission.

Create Mappings [Visit Site](#) 2025 – Present

- Still in beta, focusing on iterative improvements based on user feedback.
- Allows users to share locations easily with colleagues for better collaboration.
- Provides support for Google Maps, unlike many competing providers.

Shadcn UI Theme builder [Visit Site](#) 2024

- Contributed to an open source theme builder project.
- Developed the addition of Shadcn charts for the platform.
- Enable UI/UX designers to avoid the hassle of coding, and enable realtime theme building with a GUI.

Lazy Logger VS Code Extension [Visit Marketplace](#) 2023 – Present

- Developed an extension for VS Code with TypeScript, automating the insertion of print statements for selected text. Enhanced developer efficiency by displaying file names, line numbers, and logged variables, significantly optimizing debugging workflow. Achieved a more than 20% reduction in debugging time by eliminating extra coding steps.
- Introduced beta support across JavaScript, TypeScript, C#, Java, and Rust languages, expanding functionality and adoption among diverse developer communities.

Quotozz [Visit Site](#) 2023 – Present

- Developed an Image Quote Generator application enabling users to create images with random quotes from authors or personalized inspirational thoughts.
- Implemented the frontend using React, TypeScript, and Tailwind CSS, deployed on Netlify. Implemented the backend in Python, utilizing AWS Serverless architecture with Docker containers on Lambda functions.
- Established a CI/CD workflow with GitHub Actions, automating backend deployment on AWS and frontend deployment on Netlify upon merging PRs to the production branch.
- Utilized AWS services including S3, Lambda, ECR, API Gateway, and CloudWatch Logs, ensuring robust functionality and comprehensive monitoring.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL, Python, Java, C, LaTeX, MatLab, R

Frameworks: React, Angular, Vue, NextJS, NestJs, ExpressJS

Developer Tools: Git, Docker, Amazon Web Services, Azure Devops

Databases: PostgreSQL, MongoDB, Amazon RDS, Pinecone

REFERENCES

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