

# Chanidu Karunarathna

**BSc Computer Engineering Undergraduate | Azure 1X Certified | DevOps Engineer Intern**

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**Github :** [Chanidu26](#) | **Portfolio :** [ChaniduDev](#) | **Blog :** [ChaniduKarunarathna](#)

## Summary

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A Passionate Computer Engineer with experience in Full-stack development, machine learning, DevOps and cloud computing, I am experience in deploying software solutions with streamline automated workflows. Dedicated to building innovative solutions with a strong focus on both the front-end and back-end.

## Education

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- **BSc Hons Computer Engineering (UG)** - University of Ruhuna 2022 - Present
- **GCE Advanced Level** - Mahinda College Galle (Results – AAA | Distric Rank - 123) 2007 - 2020

## Technical Skills

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- **Programming Languages** - Python, Java, C++, JavaScript, TypeScript
- **Web Development** - HTML, CSS, React, NextJs, NodeJs, ExpressJs, Tailwind CSS
- **DevOps** - Jenkins, Terraform, Ansible, Docker, Kubernetes, AWS, Linux, CICD
- **Version Control** – Git, Github
- **Databases** - MySql, MongoDB, Postgres SQL
- **Tools and Libraries** - Figma, Visual Studio, Inteliji Idea, Postman, Jupyter, Jira

## Projects

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### DevOps Project (Ongoing) | [Repo](#)

Developing automated, streamlined CICD Pipeline to automate the cloud deployment for a MERN stack application. This pipeline incorporates Jenkins for build process, Docker for create build artifacts, Ansible and Terraform for infrastructure automation and AWS EC2 for the deployment.

**Technology Used :** Docker, Dockerhub, Github, Git, AWS, Jenkins, Kubernetes, Ansible, Terraform, SonarQube, Trivy

### Software Project (Both Web Application and Mobile Application) | [Repo](#)

Created a comprehensive web and mobile application for booking badminton courts. Utilized a MERN stack (Node.js, React, Express.js, MongoDB) for the web platform and Flutter with Firebase for the mobile app. Integrated tools like Tailwind CSS, Jira, Github, and CICD for efficient development and deployment.

**Technology Used :** NodeJs, React, ExpressJs, MongoDB, Flutter, Firebase, Tailwind CSS, Git, Github, CICD, Jira, Docker, Postman, Stripe

### ChaniduDev (Personal Portfolio) | [Repo](#)

Developed a professional personal portfolio to showcase skills and projects, using React and Tailwind CSS for modern UI design. The project is deployed on Vercel and includes CICD integration for seamless updates.

**Technology Used :** React, Tailwind CSS, Vercel, EmailJs, Git, Github, Github Actions, CICD, Framer Motions

## Loan Approval Classification (ML) | Repo

Built ML model to predict loan approval outcomes. Trained model using Support Vector Machine (SVM) and Logistic Regression. Achieving high accuracy rates (SVM: **94%**, Logistic Regression: **92%**). The project includes web interface created with HTML and Python. Deployed to the AWS EC2 through Docker and CICD.

**Technology Used** : Jupyter, Python, HTML, SVM, Logistic Regression, AWS EC2, Docker, Github Actions

## Quiz Crash | Repo

Developed a real-time quiz application with two user types: teachers and students. Teachers can create and schedule quizzes, while students can log in to play and track leaderboard updates. The app supports real-time gameplay for multiple users, with data synced dynamically using SocketIO.

**Technology Used** : SocketIO, React, TypeScript, Postgres SQL, ExpressJs, NodeJs

## Soft Skills

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- Team work
- Leadership
- Effective Communication
- Critical Thinking
- Fast Learning

## Licenses and Certifications

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- Microsoft Azure Fundamentals - Kodekloud
- Kubernetes for absolute beginners - Kodekloud
- Docker for absolute beginners - Kodekloud
- Udemy Labs Terraform for beginners - Kodekloud
- Git , Github and Markdown course - Udemy
- Postman Api Fundamentals Student Expert
- Linux tutorial with Labs - Kodekloud
- Bash Scripting for Beginners - Udemy
- Fundamentals of DevOps - Kodekloud

## Achievements

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- IEEE Xtreme 18.0 2024 - **3rd** Place in Srilanka | **93rd** Place in Global
- SLIIT Codefest Algothon 2024 - **Finalist**

## Volunteer Work

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| ▪ Publicity and Public Visibility Lead - IEEE IAS Student Chapter, University of Ruhuna | 2024 Jan - Dec     |
| ▪ Design and Publicity Member - CareerXpo 1.0   | 2024 Apr - Sep     |
| ▪ Media Division Member - SEDS Ruhuna and SEDS Srilanka                                 | 2024 Apr - Present |
| ▪ Volunteer - Project Mehewara  | 2024 Jan - Present |

## References

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