



# RASHMIKA DUSHMANTHA

## SOFTWARE ENGINEERING INTERNSHIP

### SUMMARY

Final Year Computer Science student with experience in **backend development, cloud services, DevOps, and AI/ML**. A strong problem solver and quick learner, seeking a **software engineering internship** to contribute to real-world projects and gain industry exposure

### CONTACT

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### TECHNICAL SKILLS

- **Programming Languages:** C/C++, Java, Python, R, JavaScript, TypeScript
- **Frontend:** HTML, CSS, React
- **Backend:** Spring Boot, FastAPI (REST APIs, OOP principles)
- **Cloud Platforms:** Azure (deployment, services)
- **Databases:** MySQL, MongoDB, Neo4j
- **DevOps Tools:** Docker, Jenkins, GitHub Actions
- **Hardware / Embedded Systems:** Arduino
- **Version Control:** Git, GitHub
- **Designing tools:** Figma

### EDUCATION

#### BSc (Hons) in Computer Science (Reading)

University of Sri Jayewardenepura

**Current GPA: 3.63/4.0**

2022 July – Present

#### GCE Advanced Level Examination

Thurstan College Colombo

Combined Mathematics - C | Chemistry - B | Physics - B

**Z-score: 1.46**

2020 October

### PROJECTS

#### [HarmonyBot – Conflict Mediating Social Robot](#)

2025

Python | Arduino | C/C++ | FastAPI | Azure | HuggingFace | LangChain | Git

- Built a social robot integrating speech and gesture recognition for conflict mediation scenarios
- Deployed HuggingFace Models on HuggingFace Inference Endpoints for conversation and sentiment analysis
- Used Azure AI Service for STT and TTS
- Implemented AI agent using LangChain to manage conversation
- Arduino-based hardware programmed for expressive gestures and synchronized responses

### Bank System Backend – Loan Approval using ML

2025

Java Spring Boot | Python FASTAPI | Scikit-learn | MS SQL | Azure | GitHub | Docker | GitHub Actions

- Implemented REST APIs to manage customers, accounts, and loan records
- Integrated a Python-based ML model with Scikit-learn to automate loan approvals
- Used Azure SQL as the database
- Built a CI/CD pipeline to containerize and deploy Docker images, reducing deployment time
- Deployed backend services on Microsoft Azure

### FOCUS App – Social Media Distraction Reduction System

2025

Kotlin | Arduino | C/C++ | Android | Git | WeMos D1 Mini

- Developed an Android app that enforces timed social media breaks using overlays and notifications
- Connected to Arduino hardware to provide real-world feedback for distraction management
- Applied Human-Computer Interaction (HCI) techniques to introduce friction and reduce distraction

### Airline Passenger Satisfaction Study – Data-Driven Predictive Modeling

2025

Python | Scikit-learn | Pandas | NumPy | Dash | Plotly | Jupyter Notebook

- Applied data cleaning, feature engineering, and clustering techniques to uncover behavioral patterns
- Trained and evaluated machine learning models using Scikit-learn to predict passenger satisfaction
- Developed an interactive Dash dashboard to visualize model outcomes and feature relationships
- Utilized PuLP for optimization modeling to maximize passenger satisfaction within budget constraints

### Resource Allocation System – Standalone Desktop Application

2023

Java | Java Swing | MySQL | WAMP

- Designed and developed a desktop app for resource allocation and management using Java
- Built UI components using Java Swing
- Used MySQL as the database and hosted on WAMP server
- Gained first-hand experience in full-stack desktop application development

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## ACHIEVEMENTS & COMPETITIONS

### **Cre8X UI/UX Competition organized by BCS Student Chapter of KDU**

2024

- Selected as a Top 10 Finalist out of hundreds of teams
- Collaborated with teammates to design and present an innovative UI/UX solutions

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## EXTRACURRICULAR ACTIVITIES

### **AURORA 2024 – Conference on Computer Science**

2023–2024

- Served as **Competition Committee Co-head**, leading the design and execution of competitions
- Organized an Ideathon on Generative AI for university students and a Quiz competition for school students

### **AIESEC in University of Sri Jayewardenepura**

2024–2025

- Member of the **Outgoing Global Volunteer – International Relations Team**, managing partnerships and participant engagement
- Appointed as **Vice President of Logistics** for GoBeyond 2025, overseeing event logistics, resource allocation and execution

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## REFERENCES

Prof. Ravindra De Silva  
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