# ANUSRI METTALA

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## EDUCATION

**Purdue University,** Indianapolis, IN
Master of Science in Computer Science

**August 2023 – May 2025**
GPA: **3.6/4.0**

**Jawaharlal Nehru Technological University,** Hyderabad, India
Bachelor of Technology in Computer Science and Engineering

**August 2018 – June 2022**
GPA: **9.1/10.0**

## TECHNICAL SKILLS

**Languages:** Python, Java, Golang, C#, TypeScript, HTML, CSS, Bootstrap, JavaScript, ReactJS, Spring Boot, RESTful API, Gin
**Databases:** MySQL, PL/SQL, PHP
**DevOps & CI/CD:** Docker, Jenkins, Git, Kubernetes, JSON, GitHub, Bitbucket
**Tools:** Visual Studio, VS Code, SQL Workbench, Postman, Jest, MS Office, Wireshark, Jest, Junit, Microsoft Excel, WordPress, Unit Testing
**Product Management:** Product Lifecycle Management, Jira, Notion, Scrum, Agile, Power point, MS Office, Data analysis, SDLC

## PROFESSIONAL EXPERIENCE

**Web Programmer**, **The Polis Center**, Indianapolis, IN                                    **May 2024 – Present**
- Developed secure RESTful APIs for user authentication and authorization using Golang and Gin, including flows like signup, login, password reset, and email verification.
- Architected modular backend layers (handlers, models, DB queries) to improve maintainability, readability, and testability.
- Integrated GORM ORM with Microsoft SQL Server to implement structured CRUD operations for user workflows.
- Implemented JWT-based session tokens with middleware for session management and RBAC.
- Created mockable DB interfaces to enable unit/integration testing and smoother CI/CD pipelines.
- Designed, implemented, and documented Golang APIs, Kubernetes clusters, and CI/CD pipelines using GitHub Actions, significantly improving deployment efficiency, team collaboration, and reducing onboarding time by 40%.

**Full Stack Developer, Comet Lab**, Indianapolis, IN                                    **September 2023 – Present**
- Developed full-stack web applications for small vendors using Java, ReactJS, JavaScript, MySQL.
- Created a Project Management System in C# supporting task tracking, collaboration, and reporting.
- Built responsive, accessible UIs with Bootstrap and Material UI for cross-device compatibility.
- Collaborated with faculty and student teams to deliver scalable vendor-specific tools reducing manual operations by 40%.

**Application Developer, DBS Bank**, India                                    **July 2022 – August 2023**
- Contributed to the development of banking applications, supporting secure transactions, user onboarding, and account management workflows.
- Built and enhanced Spring Boot microservices, integrating Spring Data JPA and Hibernate for efficient ORM-based persistence and seamless database interactions.
- Participated in implementing semantic search functionality using Elasticsearch and NLP-based Q&A models, empowering 250+ users with intelligent search across banking documentation.
- Developed responsive and modular UI components using ReactJS, TypeScript, JavaScript, Material UI, and CSS, ensuring a smooth experience across internal and customer-facing portals.
- Optimized SQL queries and backend performance to reduce response times and enhance real-time data accessibility in high-volume transactional environments.
- Assisted in automating deployment workflows using CI/CD pipelines, ensuring rapid and reliable delivery of features across staging and production.
- Collaborated with cross-functional teams including QA, DevOps, and product managers to align deliverables with compliance, scalability, and customer satisfaction goals.

## PROJECTS

**Smart Email Assistant - *React, Material UI, Spring Boot, Java 17, Gemini API, Chrome Extension***                    **Code**
- Built a full-stack AI-powered email reply generator with tone customization (professional, casual, etc.). Developed a responsive frontend using React + MUI and a Spring Boot backend integrated with Gemini API. Extended capabilities through a Chrome Extension embedded in Gmail, enabling one-click smart replies.

**Bird Species Identification using CNN - *Python, TensorFlow/Keras, OpenCV, CNN, Image Classification***
- Developed a convolutional neural network (CNN) model to accurately classify bird species from image data. Implemented data preprocessing techniques using OpenCV and augmented datasets to improve model generalization. Achieved high classification accuracy through fine-tuning of CNN layers and hyperparameters.

## APPRENTICESHIP

- **Cisco Networking Academy® Program** apprenticeship, acquired skills in networking fundamentals and system administration.
- **HackIndy 2025** – Purdue Indy Computer Science Club
  - Collaborated in a 4-day hackathon to build innovative tech solutions, sharpening teamwork and problem-solving skills.
- **DBS Hack2Hire 2022** – DBS Bank
  - Demonstrated expertise in application development during a competitive virtual hackathon, earning a full-time offer from DBS Bank.