

NIELABHISHEK J DAVID

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PROFESSIONAL SUMMARY

Computer Science Engineering graduate with experience in developing AI systems and cloud native applications. Completed internship at IISc Bengaluru on real-time microservices development using FastAPI, React and Firebase. Having experience in problem solving and application scalability. Currently looking to apply at a company for an entry level position of a software developer.

EXPERIENCE

- ❖ **Intern | Indian Institute of Science (IISc), Bengaluru** Feb 2025 – May 2025
- Built AI-driven microservices using **FastAPI**, **React.js**, and **WebSockets** for MagicMirror² project
 - Integrated **Firebase** for user authentication, Storage and Firestore
 - Integrated **Gemini LLM** and **Face-Recognition** for personalized UX.
 - Followed **Agile methodology** with sprint-based planning and collaborated with cross-functional team during development cycles.

PROJECTS

- ❖ **MagicMirror² | Digital Wardrobe**
Tech Stack: FastAPI, React.js, WebSockets, Gemini LLM, OpenCV, Face-Recognition, Firebase(Database)
- Designed and optimized a scalable Firebase data architecture integrating Authentication, Firestore, and Storage to manage user profiles, wardrobes and real-time personalization securely.
 - Implemented secure, touchless authentication using facial recognition and pin-based verification ensuring reliable user identification and data access.
 - Integrated Gemini LLM with backend services to generate intelligent outfit recommendations based on wardrobe data, user preferences and contextual inputs.
- ❖ **Fashion Recommendation System**
Tech Stack: TensorFlow, EfficientNetB3, Flask, SQLAlchemy, React
- Trained and deployed an EfficientNetB3-based deep learning model achieving 92% accuracy for body shape classification to enable personalized fashion recommendations.
 - Designed normalized SQL schemas using SQLAlchemy to store user measurements, preferences, and historical outfit data with efficient retrieval for personalization.
 - Developed Flask REST APIs to fetch user-specific data and deliver Amazon-sourced product recommendations, integrated seamlessly with React frontend.
- ❖ **Cloud-Based Attendance System**
Tech Stack: React.js, Node.js, Firebase Auth, Cloud Firestore, CI/CD, GitHub Actions
- Built a cloud-native attendance management system with secure authentication, real-time attendance updates, and student profile management using Firebase.
 - Implemented role-based access control (RBAC) and an analytics dashboard to visualize attendance trends and improve administrative oversight.
 - Automated deployment workflows using CI/CD pipelines with GitHub Actions, ensuring reliable builds and faster feature delivery.
- ❖ **Firewall Monitoring Dashboard**
Tech Stack: Python, Flask, React, REST APIs
- Developed a web-based dashboard to manage and monitor firewall rules and logs through a clean, user-friendly interface.
 - Built RESTful backend APIs to support CRUD operations for firewall rules and real-time log retrieval.
 - Integrated frontend and backend services to enable secure rule updates, log visualization and efficient network monitoring.

❖ Examination System

Tech Stack: PHP, PHPUnit, MySQL, Selenium

- Developed a secure online examination platform supporting authentication, timed exams, and full CRUD operations for questions and results.
- Designed and validated MySQL database transactions to ensure data consistency and integrity during exam submissions.
- Implemented automated unit and integration tests using PHPUnit and Selenium to verify system reliability and prevent submission failures.

EDUCATION

❖ **B.Tech in Computer Science Engineering**

PES University, RR Campus, Bengaluru

Graduated: Aug 2025

CGPA– 7.73

TECHNICAL SKILLS

- **Programming Languages:** Python, Java
- **Frontend Development:** HTML, CSS, JavaScript
- **Backend Development:** FastAPI, Flask, JDBC, Servlets
- **Database:** MySQL, MongoDB, Oracle SQL(PL/SQL)
- **Backend Development (Familiar):** Spring, Django, Hibernate
- **Machine Learning Libraries (Familiar):** TensorFlow, PyTorch, Pandas, NumPy
- **Cloud & DevOps (Familiar):** AWS (EC2, S3, Lambda), Firebase
- **Version Control & Project Management:** Git, GitHub, Jira

CERTIFICATIONS

- Beginner's guide to Linux Kernel Development. ([Certificate](#))
- AWS educate Introduction to Cloud. ([Storage](#), [Compute](#), [Serverless](#))
- Jira Work Management Fundamentals Badge. ([Atlassian University](#))
- Java Full Stack & Generative AI

ACHIEVEMENTS

- Silver Medalist – IndiaSkills Regional 2021 (Industrial Control)
- 6th Place – IndiaSkills National 2022 (Industrial Control)
- Gold Medalist – Karnataka Skills State 2021 (Industrial Control)
- 8th Place – Kalpana Hackathon: Developed a disaster tracking and resource coordination system