

Dayananda Dowarah

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[Portfolio](#) — [GitHub](#)

Summary

Experienced **Full Stack Developer** with over **3 years** of expertise in **Laravel** and **Flutter**, enhanced with DevOps, cloud infrastructure, and practical **AI/ML development experience**. Skilled in building scalable web and mobile applications, optimizing performance, implementing secure **multi-auth systems**, and managing server deployments. Applied **deep learning techniques** to real-world problems such as **cervical cancer detection**, and integrated trained models into user-facing applications using **Django**. Strong advocate of **clean architecture**, maintainable code, and data-driven solutions.

Education

- **Master of Computer Applications (MCA)** – Cotton College State University, Guwahati
Grade: 75% — Year: 2021

Professional Experience

Full Stack Developer

Sunishchit Technovations Pvt. Ltd.

Feb 2025 – Present

- Currently working on the **Integrated Land Records Management System** for the **Director of Land Records and Surveys**, Government of Assam.
- Focused on the **e-Khajana** module for digital payment of land revenue and the **Dharitree** module for land record management.
- Built and maintained systems using legacy and modern stacks including **CodeIgniter 2**, **CodeIgniter 3**, **HTML**, **CSS**, and **JavaScript/jQuery**.
- Designed and optimized database structures using **PostgreSQL** for high-volume transactional and geospatial land data.
- Developed and integrated **Python Flask APIs** for bridging modern functionalities with legacy systems.
- Ensured secure, scalable, and reliable land record and payment management features in compliance with government standards.
- Collaborated closely with government officials, domain experts, and cross-functional technical teams to understand legacy system intricacies and modernize them without disruption.
- Migrated and maintained old CodeIgniter modules while introducing modular and maintainable improvements.
- Created reusable frontend components for dynamic forms and reports using **JavaScript** and **jQuery**.
- Participated in planning, deployment, and support of modules across different districts in Assam.
- Documented workflows and developed user training material to support state-wide adoption by revenue officials and land record clerks.

Full Stack Developer

Web .com (India) Pvt. Ltd.

Nov 2021 – Feb 2025

- Developed scalable web applications using **Laravel** for backend and **Flutter** for cross-platform mobile apps.

- Implemented **multi-auth systems** using **Laravel guards**, providing secure authentication for users and admins.
- Built and consumed **secure RESTful APIs** with **Laravel**, ensuring consistent and structured responses.
- Integrated **front-end technologies** such as **HTML**, **CSS**, and **jQuery** to build responsive web interfaces.
- Optimized web applications and databases, improving **query performance by 40%**, directly enhancing user experience.
- Developed **offline-first mobile applications** using **Flutter**, syncing data with RESTful APIs and leveraging **SQLite**.
- Integrated **Firebase services** (real-time database, push notifications, and crash analytics) in mobile applications.
- Published custom Flutter packages, including **Indian Currency to Word** (2.5k+ downloads) and **Direct Caller Sim Choice** (122+ downloads).
- Implemented **DevOps practices** including Docker containerization and Digital Ocean VPS management.
- Set up **CI/CD pipelines** using GitHub Actions for automated deployment and testing.
- Configured **Apache** and **Nginx** server environments for optimal performance.
- Wrote **native code** for emergency actions, including detecting **key press patterns** and **phone shaking** to trigger emergency phone calls and send location via SMS.
- Collaborated with cross-functional teams to design, develop, and maintain applications, improving team productivity and reducing bugs by **15%**.
- Conducted code reviews, pair programming, and participated in daily stand-ups to ensure timely delivery and high-quality code.
- Automated repetitive tasks like **email notifications** and **report generation** using **Laravel Scheduler**.
- Coordinated with product owners and designers to align application features with user needs and market demands.

Research Intern

Institute of Advanced Study in Science and Technology (IASST)

2020 – 2021

- Developed a **proof-of-concept** system to detect cervical cancer in pap smear slide images using deep learning.
- Conducted both **binary** (normal vs abnormal) and **multi-class classification** (various stages of dysplasia) tasks.
- Applied **data augmentation techniques** such as rotation, flipping, zooming, contrast adjustment, and color jittering to generate synthetic training data and address class imbalance.
- Used **MobileNet V2** as the base model and customized its top layers with dense, dropout, and batch normalization layers to improve classification performance.
- Experimented with various **optimization algorithms** including **SGD**, **Adam**, and **RMSprop**, and different layer combinations to optimize performance.
- Achieved a best model accuracy of **71%** after comparative evaluation of optimizers and architectural variations.
- Evaluated models using metrics such as **accuracy**, **precision**, **recall**, and **F1-score** to ensure clinical relevance.

- Built a user-friendly **web application** using the **Django framework** to integrate and serve the trained model.
- Enabled medical professionals to upload images and receive real-time diagnostic predictions through the web interface.
- Collaborated with domain experts in pathology to validate dataset labels and ensure prediction reliability.
- Documented the full pipeline from data preprocessing to model deployment for future reference and reproducibility.

Technical Skills

- **Languages:** Dart, PHP, C#, SQL, Bash
- **Frameworks:** Laravel, Flutter
- **Front-End Technologies:** HTML, CSS, jQuery
- **Version Control:** Git, GitHub
- **Database:** MySQL, PostgreSQL, SQLite
- **DevOps & Cloud:**
 - Docker Containerization
 - Digital Ocean VPS Management
 - CI/CD Pipeline Implementation
 - Apache & Nginx Configuration
 - Linux Server Administration
- **Tools:** Firebase, REST APIs, Laravel Scheduler
- **Concepts:** Multi-Auth Systems, API Resources, Policies, Events, Listeners, Observers, Dependency Injection, Lazy Loading, Eager Loading
- **Soft Skills:** Problem-solving, Communication, Teamwork, Time Management, Adaptability

Achievements and Projects

- **Koan App:** Built with Laravel and Flutter, using **MVC architecture** and **Provider** for state management.
- **Handwriting Recognition App:** Offline app leveraging **Google ML Kit** for digital note conversion.
- **Portfolio Website:** Showcasing projects, built with **Next.js**.
- **Cervical Cancer Detection:** ML model using MobileNet v2 during an internship.

Certifications

- **Back End Development and APIs** (freeCodeCamp, 2022)
- **Python** (Kaggle, 2020)
- **Intro to Machine Learning** (Kaggle, 2020)