# Aavash Gyawali — Computer Engineer

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## Professional Summary

Experienced full-stack developer specializing in building scalable, user-centric web applications. Proficient in modern JavaScript frameworks (React, Next.js), backend technologies (Django, Node.js). Demonstrated success in delivering high-impact projects for international organizations including World Bank initiatives. Strong expertise in UI/UX design, performance optimization, and managing production environments.

## Technical Skills

**Frontend**: React.js, Tailwind CSS, ShadCN/UI, JavaScript (ES6+), HTML5, CSS3

**Backend**: Django, Node.js, Frappe/ERPNext, RESTful APIs

**Databases**: PostgreSQL, MySQL, MongoDB

**DevOps & Tools**: Docker, Nginx, Traefik, Git, Linux (Arch, Ubuntu)

**Visualization**: Leaflet.js, Chart.js, GeoJSON, Data Dashboards

**Other Skills**: SEO Optimization, Google Analytics, UI/UX Design, Agile Methodologies

**Languages**: English, Nepali (Native)

## Professional Experience

**Geofinity Solution Pvt. Ltd.** — **Baluwatar, Nepal**
*Software Developer* — *Nov 2024 - Oct 2025*

**Key Responsibilities & Achievements:**

- Design and develop responsive, high-performance web applications with focus on exceptional user experience
- Manage end-to-end server infrastructure including deployment, monitoring, and maintenance using Linux, Docker, Nginx, and Traefik
- Implement SEO strategies and analytics integration resulting in improved site visibility and user engagement

**Notable Projects - World Bank Initiatives:**

- **Nepal Budget Analysis Platform**
  - Engineered an interactive data visualization web application for Nepal's national budget using React, Leaflet.js, and GeoJSON
  - Implemented dynamic filtering by sector, district, and fiscal year with integrated interactive maps and charts
  - Designed intuitive UI enabling policymakers and citizens to explore complex budget data effortlessly
- **DidikiAwaaz**
  - Developed comprehensive survey platform for educational and social research targeting rural households
  - Built React-based frontend integrated with Enketo Express for seamless form submissions
  - Implemented OpenRosa-compatible backend ensuring standardized, secure data collection
  - Enabled offline-first architecture with automatic synchronization for low-connectivity areas
  - Created interactive data dashboards for real-time visualization and reporting for researchers and policymakers
  - Optimized platform architecture to handle thousands of concurrent users and large-scale datasets

**Pahadi Research LLC** — **Remote**
*Research Fellow* — *Dec 2023 - Feb 2024*

- Completed intensive 2-month research fellowship focused on enterprise software development
- Acquired proficiency in C# programming with emphasis on unit testing and best practices
- Developed RESTful APIs and gained hands-on experience with API design patterns
- Explored Flutter framework for cross-platform mobile application development
- Applied learned technologies in practical project implementations using C#, Flutter, and MySQL

## Academic Projects

**Major Project**: **Leaf Disease Prediction System** – Developed machine learning-based solution for automated plant disease detection and classification, utilizing computer vision techniques and neural networks.

**Minor Project**: **AI-Powered Image Colorization** – Implemented deep learning model to automatically colorize grayscale flower images, demonstrating proficiency in image processing and neural network architectures.

## Education

**Advance College of Engineering and Management (ACEM)** — **Lalitpur, Nepal**
*Bachelor of Engineering in Computer Engineering* — *2019–2024*

**CCRC** — **Nepal**
*Higher Secondary Education (Science)* — *2017–2019*