Prabesh Giri

Software Generalist

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PROFILE

Completed his Undergraduate Degree and has one year of job experience as Backend Development and DevOps and two as Document Image Technician and Software Developer. A generalist who doesn't limit self to any niche and dives deep into relevant material to gain proper understanding. Capable of striking a balance between personal learning interests and duty. Doesn't mind solo tasks, but also loves working with a team. Is knowledgeable on multiple domains of computer technology.

EMPLOYMENT HISTORY

Document Image Technician & Software Developer, Nepal Knowledge Center Services Pvt. Ltd.

Mar 2024 - Present | Kathmandu, Nepal

During my tenure at Nepal Knowledge Center Services Pvt. Ltd., I played a role as Document Image Technicial & Software Developer. I was concerened with general software related tasks of software development, customization and system administration. And also with tasks concerning digitization of documents such as scanning and editing them for cleanup.

Projects Completed:

- **Nepali Calender Integration on Gibbon Platform:** I was concerned with adding Nepali Calender Support to the Gibbon School Management Platform for usage by Nepali Schools.
- **Document to Nepali OCR Application:** I created a semi-automated application which converted pages and selected sections of scanned pages into Nepali Text via Tesseract OCR.
- **Book Database Viewer Mobile App:** I created an app which allows viewing metadata Book-related databases on a smartphone to aid with data entry tasks.
- **Digitization of Documents for various Nepali entities and schools:** I aided with digitizing and scanning physical books for entry into Library Management Software for various governmental and non-governmental organization, and numerous schools.
- **System Administration for Library Management Systems:** I handled assigned tasks of system administration for various Library Management Systems. I helped with troubleshooting, backups and installation of new services.

Technologies used: Python, Apache2, Docker, Mailcow, WireGuard, Bind9, Cloudflare DNS, PHP, C#, Godot Engine, Tesseract OCR, KVM/QEMU, Linux, PMB, ResourceSpace

Backend & DevOps Developer, Darvilab Pvt. Ltd.

Feb 2023 – Mar 2024 | Kathmandu, Nepal

During my tenure at Darvilab Pvt. Ltd., I played a role of Backend & DevOps Developer. I worked with colleagues to accomplish given tasks and on developing software for clients of the company and the company itself.

Projects Completed:

- **KYC Verification Webapp:** Automates KYC using document recognition, classification, and verifies them through photos taken from realtime video during the process.
- **Document Recognition Webapp:** Performs OCR on Nepali Citizenships, Driver Licenses using finetuned AI models
- **Document Classification API:** Classifies documents based on types such as Citizenships, Driver Licenses, Passports using Grounding DINO AI.
- **Customer Chat Webapp:** Allowed agents to respond to clients but could also use an integrated Chat Bot for FAQs.
- **Chat Bot Webapp:** Responds using a database but can optionally respond using PDF documents provided to Llama2 LLM.

Technologies used: Docker, Nginx, Python, Flask, FastAPI, TypeScript/JavaScript, MongoDB, Express.js, Git, Postman, Linux

Software Developer Intern, Darvilab Pvt. Ltd.

Mar 2022 – Dec 2022 | Kathmandu, Nepal

As a software developer intern, I was engaged in rapidly learning technologies used by the company.

Projects Completed:

- Created a VR app where the user could interact with an AI assistant and direct them to do simple tasks in the world or perform question answering.
- Created an API that could infer text from speech using OpenAI Whisper.
- Created an API that could respond to user speech with speech, using a combination of OpenAI Whisper, GPT-3.5, and Tacotron 2.

Technologies used: Python, Flask, LangChain, HuggingFace, C#, Unity Engine, Meta SDK

EDUCATION

Master of Computer Applications (MCA)

Indira Gandhi National Open University, New Delhi| Jul 2024 – Present

(Currently Enrolled via ICA Regional Campus, Kathmandu)

Relevant Courses Undertaken: Data Warehousing and Data Mining, Security and Cyber Laws, Data Communication and Computer Networks, Cloud Computing and IOT, Artificial Intelligence and Machine Learning, Mobile Computing

Bachelor of Arts in Computer Applications (BCA)

Tribhuvan University, Kathmandu | Oct 2018 – Dec 2023 | GPA: 3.38

Relevant Semester Projects / Internships:

- **8th Semester:** Made a 3D Model Drawing VR App which allowed drawing 3D meshes in VR with freehand drawing.
- **7th Semester:** Made an AI Assistant VR App where the user could talk to an AI assistant that could do simple tasks such as spawning and moving objects.
- **6th Semester:** Made a Drawing App that Generates 3D Meshes using Freehand Drawing.
- **4th Semester:** Made a Video Game App where characters fought each other with Behavior Trees.

Technologies used: Python, Flask, LangChain, Hugging Face, C#, Unity, Meta SDK, GDScript, Godot

Relevant Courses Undertaken: Information Security, Data Structures & Algorithms, Software Engineering, Network Programming, DotNet Programming, Advanced Java Programming, MySQL, PHP, Javascript, HTML/CSS, C

SKILLS

Programming, Linux System Administration, Software and Hardware Troubleshooting, Computer Maintainence, Image Editing, Audio Editing, 3D Model Creation and Animation, Document Creation and Editing, Slide Creation and Presentation, Virtual Reality Development, Virtualization and Containerization Technology

TECHNOLOGIES

Linux, KVM/QEMU, Docker, C#, Java, C++, Python, TypeScript/JavaScript, PHP, Node.js, Nginx, Apache2, Caddy, Git, MongoDB, MySQL, SQLLite, HTML & CSS, Unity Engine, Godot Engine, Blender, Krita, GIMP, Libre Office, Microsoft Office, Adobe Suite, PMB, ResourceSpace, Android Studio, VS Code, Neovim

HOBBIES

Software Tinkering, Video Games, Hiking