

# Prabesh Giri, Software Engineer

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## LINKS

[LinkedIn](#), [Github](#)

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## PROFILE

Recently completed Undergraduate degree alongside a one year job experience with Backend Development and DevOps. Has been self-learning programming since high school. A generalist who doesn't limit self to any niche, but also dives deep into relevant material to gain proper understanding. Capable of striking a balance between personal learning interests and duty- greatly values meeting deadlines. Doesn't mind solo tasks, but also loves working with the team.

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## EMPLOYMENT HISTORY

Mar 2023 — Feb 2024

### Backend Developer, Darvilab Pvt. Ltd.

Kathmandu

During the tenure at Darvilab Pvt. Ltd., I worked on making APIs through chaining premade AI models with each other. I also worked on DevOps as well, engaging with fellow team members to properly integrate their work.

- KYC Verification webapp that automates KYC using document recognition, classification and verifies them through photos taken from realtime video during the process.
  - Technologies used: Python, FastAPI, Docker, Nginx, Amazon Linux
- Document Recognition webapp that can perform OCR on Nepali Citizenships, Driver Licenses using models trained by the company
  - Technologies used: Python, FastAPI, Docker, Nginx, Amazon Linux
- Document Classification API that could classify documents based on types such as Citizenships, Driver Licenses, Passports using GroundingDinoAI
  - Technologies used : Python, Flask, Docker, Nginx, Amazon Linux
- Customer Chat webapp that allowed agents to respond to clients but could also use an integrated Chat Bot for FAQs.
  - Technologies used : TypeScript, Docker, MongoDB, Express.js, Websockets
- Chat Bot webapp that responds using a database but can optionally respond using pdf documents provided to Llama2 AI
  - Technologies used : Python, Flask, TypeScript, MongoDB, Express.js, HuggingFace

Dec 2022 — Mar 2023

### Software Developer Intern, Darvilab Pvt. Ltd.

Kathmandu

As a software developer intern, I was engaged in rapidly learning technologies used by the company that were new to me. I also added to the company's research and development work.

- 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, GPT3.5 and Tacotron 2
- Technologies used : Python, Flask, LangChain, HuggingFace, C#, Unity, Meta SDK

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## EDUCATION

Oct 2018 — Dec 2023

### Bachelors of Arts in Computer Applications, Tribhuvan University

Kathmandu

*One year delay arising from university activities being slowed down by the COVID-19 pandemic.*

Graduated with 3.38 GPA.

Relevant Semester Projects/Internships:

- Eight Semester Project : 3D Model Drawing App for VR
  - Made a VR app which allowed drawing 3D meshes in VR with freehand drawing.
  - Technologies used: C#, Unity, Meta SDK
- Seventh Semester Internship Project : AI Assistant for VR
  - Made a VR app where the user could talk to an AI assistant that could do simple tasks such as spawning and moving objects.
  - Technologies used: Python, Flask, LangChain, HuggingFace, C#, Unity, Meta SDK
- Sixth Semester Project : 3D Mesh Generation using Spline Curves
  - Made an app that made converted freehand drawing into 3D meshes.
  - Technologies used: C#, Unity

- Fourth Semester Project : Behavior Trees in Video Game AI
  - Used Behavior Trees to make characters fight each other
  - Technologies used: GDScript, Godot

Relevant Programming Courses: DotNet, Java, MySQL, PHP, Javascript, HTML/CSS, C

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SKILLS	Python	Javascript
	Git	C#
	Linux (Ubuntu)	MySQL
	Docker	PHP
	Nginx	HTML & CSS
	Node.js	Unity Engine
	MongoDB	Godot
	Amazon Linux	Blender
	TypeScript	Krita

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HOBBIES                      Programming, 3D Model Creation, Video Games, Hiking