

# Bibek K C



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## Summary

Hello! I'm Bibek from Nepal. I am a Full-Stack AI Engineer, who enjoy the journey of end-to-end product development, and I'm always on the hunt for a better, simpler way to design and ship applications, whether it's backend services or user-facing products.

If your job description has high semantic similarity with my **general\_skill\_corpus**, feel free to be in touch.

**general\_skill\_corpus** = “managing largescale project backends with effective architecture”,  
“delivering easy-to-use Python libraries and granular APIs”,  
“creating intuitive frontends and UX interactions following Agile practices”,  
“handling API gateways for SaaS platforms and setting up reverse proxies”,  
“containerizing and deploying applications or executables across different OS”,  
“swiftly experimenting with the latest frameworks, regardless of the field”

I'm a firm believer in my mantra, **“If they can Do it, I can Do it”**.

Want to know more about me? Feel free to chat with my assistant chatbot at <https://kc-bibek.com.np>.

## Experiences

### AI Researcher, On-device Team Lead

*NeoALI Co. Ltd, Korea*

*Aug 2023 - Present*

- Maintainer of on-device AI Writing Assistant App and develop a cross-editor Writing Assistant Plugin App that will soon be launched as a B2C product (Built on top of my weekend project [B-Assist](#))
- Prepare and obfuscate executables for Python and Javascript applications to run on Windows and macOS
- Develop a simple, scalable architecture for on-device apps, including Windows installers (Inno Setup), authentication/authorization, download services, and a web extension of the desktop app, supported by a distributed Celery queue for high concurrency and stability
- Serve SLM models using vLLM (on-premise) or Ollama (on-device), and use OpenVINO, Torch-MPS, or Torch-CUDA for other neural models
- Maintainer of ALIParse (in-house python library) that provides easy access to layout analysis modules, independent of document types and extends to provide granular APIs for RAG service
- Develop CoDino-based document Layout Detector (306M), labels: [text, title, list, figure, table]  
Two versions: fast (TensorRT-10FPS in T4GPU) vs slow (Openvino-1FPS in CPU) for BATCH\_SIZE=1
- Develop layout ranker for natural reading order of detected blocks and rule-based fast-header detector for selectable PDFs
- Demo Videos: [SamuGen-Plugin](#), [Layout-Detector](#), [Document-Parser](#), [Document-RAG](#), [Form-Extraction](#)

### Research Intern

*Robust Intelligence & Robotics Lab, KAIST*

*Jul 2022 - Dec 2022 (6 months)*

- For a single moving camera setup, developed a combined framework for realtime 6DoF Pose Estimation and Scene Graph Generation (SGG) in Robotic Manipulation Task using [Cosypose](#) framework for 6DoF pose and [Neural-Motif](#) framework for SGG and performed experiments on custom cup datasets. [[Demo](#)]
- For 2 fixed cameras setup, developed a probabilistic multi-view object-pose estimation framework that (i) associates multiple estimation results with scene graphs, (ii) combines pose distributions from singleview based estimators, and (iii) constructs a unified scene graph by predicting a unified pose distribution per object using MC dropout. More details in [draft-paper](#).

## **Backend Developer Intern**

*Bisonai, Seoul*

*Jan 2022 - Feb 2022 (2 months)*

- Built data pipelines (DAGs) in Airflow to collect DeFi data from various sources like Uniswap, Coingecko and stored them in MongoDB Atlas.
- Implemented backend API server using FastAPI and Strawberry (Python GraphQL Library).

## **Data Visualization Project Intern**

*Interactive Computing Lab, KAIST*

*Jul 2021 - Aug 2021 (2 months)*

- Made a course material for Data Visualization class, i.e., a simple [tutorials](#) for visualizing plots with Vegalite and D3.js in Observable notebook for beginners to learn Data Visualization techniques.

## **Projects: Refer [portfolio\\_bibek](#) for more details and other projects**

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- **B-Assist:** Better-Assistant for daily tasks related to text using local AI. *Demo Video:* [B-Assist](#)
- **Website Maintenance:** Managing bintechint.com, a startup providing tech products in Nepal.
- **Renameify:** Developed an automated file renaming application that renames PDF files using its content. This is useful for accountants dealing with a large number of random filenames. *Demo:* [ReNameify](#)
- **FastRAG:** A production-ready RAG app optimized to run on normal-grade PCs. *Repo:* [FastRAG](#)

## **Education**

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### **Korea Advanced Institute of Science and Technology (KAIST)**

*Sep 2019 - Aug 2023*

*Bachelors, Double Major in Electrical Engineering and Computer Science, [Courses-taken](#)*

### **British Model College (BMC)**

*July 2015 - June 2017*

*GCE A Levels, 4A\*s in Chemistry, Biology, Physics, Mathematics*

## **Skills**

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Linux, Git, Python, Pytorch, JavaScript, React, NextJs, Electron, Docker, Docker Compose, Gradio, Vllm, Ollama, OpenVino, FastAPI, Express, Nginx, PyInstaller, GoogleCloud, Public Speaking, Team Player

## **Awards**

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**Intel AI PC Innovation Challenge - First Place** NeoALI, January 2025

**AI Grand Challenge, IITP - Fifth Place** NeoALI, 2023

**KAIPPlus+ Scholarship Award** KAIST, Apr 2023

**Social Innovation Award** Tsinghua University, Jul 2021

**Inclusive Leadership** Common Purpose, 2021

**KAIST International Student Scholarship** KAIST, 2019-2023

**Best student of the batch 2015/2017** The British College, 2017

**Country Topper in AS Level Chemistry** University of Cambridge, Nov 2016

## **Other Experiences**

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- Student Assistant in International Scholar and Student Services (ISSS) team at KAIST from Spring 2023
- International Community Representative of Nepal for Spring 2020, Spring 2021, Fall 2021, Spring 2022 and Fall 2022
- Mentor of new international students for Fall 2020, Spring 2021, Fall 2021 and Spring 2022
- Attended Global Summer School 2021, AI and Sustainable Development Goals in Tsinghua University