

# MUKESH POUDEL

Hattiesburg, MS

✉ [mukeshpoudel246@gmail.com](mailto:mukeshpoudel246@gmail.com) | [linkedin.com/in/mukesh-poudel-246mp](https://www.linkedin.com/in/mukesh-poudel-246mp) | [github.com/ThorOdinson246](https://github.com/ThorOdinson246) | [mukeshpoudel.com.np](https://mukeshpoudel.com.np)

## SKILLS

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Languages : Python, C++, JavaScript, Dart

Frameworks and Libraries : Flask, Flutter, React, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, ArcPy

Cloud and Utils : Azure, Google Cloud, Apache, Linux(Debian), Git, Docker, Composer

Others : ArcGIS, Typo3, WordPress, HTML, CSS, Adobe Photoshop, InDesign

## EDUCATION

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### University of Southern Mississippi

Aug 2023 - May 2027

*Bachelors of Science in Computer Science*

- Awarded the Academic Merit Scholarship covering full tuition for all 4 years of college.
- GPA: 4.0 – President's List
- Relevant Coursework: *Data Structures and Algorithms, Machine Learning in CyberSecurity, Calculus with Analytical Geometry I and II, Differential Equations, Computer Systems, Computer Networks*

## PROJECTS

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**Hub City Transit V2** ✉ - *Python, Flask, Google Maps API, Docker, Cloud Run, Artifact Registry, JavaScript, HTML, CSS, ArcGIS Python*

Redesigning the city's bus tracking platform to enhance usability and add real-time ETA calculations with traffic considerations.

- Utilized ArcGIS Feature Layer REST API, to retrieve and process current bus location data, and integrated with Google Maps API to provide real-time ETAs, considering traffic and route progress.
- Improved UI to toggle map layers and bus visibility for better user experience.
- Used ArcGIS Feature Layers to manage and process bus route and location data.
- Deployed with Docker on Google Cloud Run and hosted on a custom subdomain.

**BIONET Project** ✉ - *TYPO3, PHP, HTML, CSS, TypoScript, MariaDB, Azure, Apache, Ubuntu*

Developed and deployed a TYPO3-based website for the Bionet Project – part of the Euro-African Biomonitoring Network for assessing environmental exposure in populations.

- Built and customized a TYPO3-based website using Bootstrap Sitepackage for responsive and intuitive UI.
- Developed custom TYPO3 extensions, sitepackages, and templates to meet specific project requirements and facilitate easy content management for editors.
- Configured the News extension to automate publication and categorization for efficient content handling.
- Migrated and deployed the website on Azure VM with Apache, ensuring 99.9% uptime scalability and performance.

**Mero Swasthya** ✉ - *Flutter & Dart, Firebase*

Developed a prototype for a digital health solution in Nepal to enhance health literacy and accessibility.

- Built a prototype that unified services like doctor consultations, anxiety and depression tests, health calculators (BMI, IBW), menstrual & hygiene tracker, and heart rate measurement and promoted health literacy by providing access to health tips, news, and reliable health information.
- Utilized Firebase & Firestore for real-time data management and Google Authentication for secure user access.
- Recognized for the innovative idea from 4000+ nationwide nominations and was Top 12 Finalist at National ICT Award 2022 under Rising Star Innovation ICT Award Category.

## OTHER EXPERIENCES

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### IT Officer - Nepal Health Frontiers (NHF)

Aug 2021 - Present

Spearhead technical infrastructure management and designed organization's website at NHF - a healthcare NGO focused on NCDs, Mental Health, and Healthy Lungs campaign in Nepal

### Graphic Designer - NEPHA

Worked as a part-time graphic designer and designed the 2023 issue of journal using Photoshop and InDesign for the Journal of Nepal Public Health Association (JNEPHA) under NEPHA