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Hein Htet Nyi

ABOUT ME

I am a passionate and dedicated data enthusiast with a strong focus on building scalable data pipelines and developing reliable APIs to generate insightful, actionable data. With a keen interest in exploring new data stacks, I continuously seek opportunities to learn and implement innovative technologies to solve complex data challenges. I am adept at designing robust systems that integrate and process large datasets efficiently, ensuring seamless data flow and high-quality insights. My goal is to leverage my expertise in data engineering to contribute to projects that empower data-driven decision-making and enhance business outcomes.

SKILLS

- Python
- Java
- JavaScript/TypeScript/NodeJS
- AWS
- Docker/Kubernetes
- Apache Airflow/PySpark/Kafka
- API – Django, FastAPI, SpringBoot
- SQL/NoSQL – MySQL, PostgresQL, MongoDB
- React, ReactNative
- HTML/CSS

LANGUAGES

- English (Conversational – Upper-intermediate)
- Chinese (Pre-intermediate)
- Burmese

EXPERIENCE

AYA Pay — *Data Engineer*

July 2024 – PRESENT

- Designed and implemented data pipelines utilizing Apache Airflow and AWS services, including EC2, Lambda, RDS, Step Functions, SAM, and S3, to streamline data processing workflows.
- Conducted research and evaluation of ETL tools to identify solutions for specific business challenges.
- Managed data migration processes, transferring data from MongoDB to PostgreSQL by writing and optimizing complex NoSQL and SQL queries.
- Developed a mobile application using React Native and built APIs with FastAPI to facilitate image data collection for training a facial recognition model.

Datumstruct — *Software Engineer*

Feb 2023 – June 2024

- Developed admin and customer dashboards for monitoring logs of IoT devices and robots using React with TypeScript and Spring Boot for API development.
- Built mobile applications with React Native and TypeScript to provide seamless user experiences across platforms.
- Designed and implemented middleware using Python to integrate APIs with IoT devices, ensuring reliable communication and data exchange.
- Conducted testing and evaluation of object detection models using OpenCV to improve computer vision capabilities.

Brillar — *Test Automation Engineer*

Oct 2022 – Jan 2023

- Utilized Tosca, a drag-and-drop automation tool, to perform testing on websites and APIs by simulating user actions and navigation flows.
- Identified and reported bugs to the development team, ensuring clear communication of issues for timely resolution.
- Managed error tracking and collaborated with developers to ensure that issues were addressed and resolved efficiently.

Teacher Su — *Backend Developer*

Aug 2022 – Jan 2023

- Developed APIs for a student management system using Django, ensuring robust and scalable backend functionality.
- Created comprehensive API documentation to support seamless integration and collaboration with frontend developers.
- Collaborated with the team to design and implement normalized database schemas, optimizing data organization and integrity.

Juncture — *Backend Developer*

Jul 2022 – Jul 2022

- Developed APIs for a resume scanning application using Django, enabling efficient processing and management of user data.

Thate Pan Institute — *Python Instructor*

Aug 2021 – Apr 2022

- Collaborated with coworkers to design and develop comprehensive lesson outlines for a six-month Python programming course tailored for children aged 14.
- Delivered engaging lectures on foundational programming concepts, including basic syntax and Object-Oriented Programming (OOP) principles.
- Guided students through progressive learning levels, culminating in building APIs using Flask during the final level of the course.

EDUCATION

University of Computer Studies, Yangon — *Computer Science*

2018 – 2020, Third Year

Majored in Computer Science, gaining foundational knowledge in programming languages such as C++, C#, Java, and JavaScript, as well as basic networking concepts. Studies were discontinued in the third year due to the challenging situation in Myanmar.

Parami University — *Statistics & Data Science*

2023 – 2024, Currently Taking a Break

Studied Data Science in an English-taught program led by professors primarily from Canada and the US. Gained knowledge in

Calculus, Statistics, and Python before deciding to take a break to work and support my family.

CERTIFICATES

- **Data Engineer Associate** — *DataCamp*
- **SQL Associate** — *DataCamp*
- **Supervised Machine Learning** — *Dr. Myo Thida*
- **Essential Math For AI and Data Science** — *Simbolo*

VOLUNTEERS

CS BootCamp — *Dr.Myo Thida*

BootCamp Volunteer

Assisted in managing and organizing virtual events, including handling Zoom meeting links, conducting roll calls, introducing speakers to the audience, sending invitation links to speakers, and recording sessions on Zoom to ensure smooth event operations.

Hub & Hack — *Thate Pan Hub*

Hackathon Mentor

Guided a team in completing their project within the set timeline during a hackathon. Provided ideas and constructive advice to enhance their project and maintained team motivation throughout the contest to ensure successful participation.

MORE DETAILS ABOUT ME

- LinkedIn - www.linkedin.com/in/guruhein
- Portfolio - https://hein-htet-nyi.vercel.app/
- GitHub - https://github.com/HeinHtetNyi
- DataCamp - https://www.datacamp.com/portfolio/heinhtetnyi
- HackerRank - https://www.hackerrank.com/profile/HeinHtetNyi