DUKE NGUYEN

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LANGUAGES & TECHNOLOGIES

Programming Languages: Python, Java, Golang, JavaScript, SQL, Bash, C

Frameworks: FastAPI, Django, Spring, React, React Native

Tools: PostgreSQL, Redis, Apache Kafka, Apache Spark, AWS, Docker, Kubernetes, Airflow, MongoDB, Git, Linux

WORK EXPERIENCE

Software Engineer — Remote, US
OpenKnect, Inc — Oct 2023 - Present
- Built Python Cloud Function to automatically update changes on database view to cut down querying cost by 25%
- Created multiple dashboard pages for managers to observe staffing process and employee productivity with Flutter

Software Engineer Intern — Remote, US
FPT Corporation — June – Sep 2022
- Improved model training job by 15% with parallel processing in Spark, saving the data analytics team 400 hours in total
- Upgraded data cleaning services for Kafka streams of behavioral finance data from millions of customers to cut down over 20% of redundant workload of other data scientist team

Software Engineer — Hanoi, Vietnam
VinBigData — April 2021 – March 2022
- Engineered a solution with a team of four to streamline the process of deploying new machine learning models with FastAPI, Redis, PostgreSQL, Docker, and AWS EC2, which saved the company $20,000 worth of data scientist's time
- Elevated the user interface with ReactJS resulting in an 80% reduction in time spent on environment preparation
- Reduced data exploration and research workload of data scientists by 40% by creating an auto-aggregator for the most up-to-date changes in several databases of gene codes and their corresponding diseases

Software Engineer Intern — Hanoi, Vietnam
Mobifone Corporation — June – Sep 2020
- Integrated a new log-in workflow with biometric locking for employees' work management app with React Native, which heavily increased security and reduced the time spent on the log-in process by 90%
- Added one time password feature to temporarily grant access to secured documents, cutting verification costs by $7,000
- Created APIs for task-assigning services to facilitate cooperation and increase productivity by 7% with Java, Spring MVC

PROJECTS

Wikipedia Browser Extension *(Python, JavaScript, HTML, CSS, Node.js)*
- Built an extension with a team of four to help users avoid misinformation and non-verified sources on an article by highlighting which part is the most highly contested with changes
- Implemented an interactive time-series graph to streamline the users' experience and drive up interactivity by 20%
- Created a link-tracking algorithm to guide users' discovery to the most relevant link on Wikipedia pages

Book Recommendation Website *(Python, Flask, PostgreSQL, JavaScript)*
- Implemented a book recommender algorithm with a 57% success rate based on users' preferred categories, their favorite authors, and other people's previous choices
- Reduced page loading time by 80% by upgrading the database indexes and data query APIs

EDUCATION

Carleton College — *BA* in **Computer Science** with **Mathematics** Minor
Major GPA: 3.9/4.0, Cum Laude — Graduated June 2023

Awards: Top 10 Jerry Hunter Mathematics Association of America - North Central Section Team Competition 2010