Doan Thanh Tung Nguyen

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Education

Technical University München, München, Bayern   *April 2022*
- M.Sc. in Computer Science
- **Related Coursework**: Advanced Algorithms, Advanced Course of Efficient Algorithms and Data Structures, Data Structure Engineering, Event Processing, Virtual Machine, Machine Learning, Introduction to Deep Learning, Statistical Foundation of Learning

Technical University Darmstadt, Darmstadt, Hessen   *October 2018 – January 2022*
- B.Sc. in Computer Science
- GPA: 3.4 (1.9 German-based)
- **Related Coursework**: Functional and OOP Concepts, Algorithms and Data Structures, Information Management, Software Engineering, Computer Network and Distributed System, System and Parallel Programming, Architecture and Design of Computer System, Operating System, Computer Security.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Golang, C++
Frameworks: Spring, Flask, Express, React, Vue, Hilbernate, Selenium
Databases & Engines: PostgreSQL, MySQL, MongoDB, Elastic Search, Kafka
Tools: Maven, Gradle, Npm, Yarn, Docker, Git
Techniques: Linux, LaTeX

Working Experience

Working Student Backend Developer at Allianz Technologies ACDC   *February 2023 – Now*
- Developed an automation tool for checking the reliability of logs and the confidentiality of internal files in the system
- Deployed a middleware for managing the logs rate in the system network
- Implemented a platform for testing training knowledge of employers

Working Student Software Engineer at Precitaste   *June 2022 – February 2023*
- Simulated the restaurant behavior and saved the testing cost of the machine learning model
- Produced analyzing scripts for computing the restaurant state KPI and optimized the business process
- Developed an automation tool for visualizing the business data and generating analysis reports

Working Student Software Engineer at Software AG   *June 2021 – May 2022*
- Implemented a platform for real-time controlling livestock and managing experimental data in research activities
- Built an friendly interactive web-based tool using NodeRED, which enables the researchers to create their own data flow

Projects

Web Control Center (source: github)
- Deliver a web-based application software supporting the DeutschBahn in controlling the railway model system
- Support real-time communication between client and server

Sensitivity Analysis in Process Mining Pipeline (source: github)
- Analyze the sensitivity in a process mining analysis pipeline
- Provide variant measurements with different strategies and metrics

Social Network Application (source: github)
- Implement a social network application running on the Android-based system
- Combine different features of Tiktok and Tinder: upload and interact with posts, recommend people based on users activities

Monotrail (source: github)
- Deliver a web-based platform helping business/rule-maker to understand the ML/AI process
- Apply ChatGPT to make the data understandable and automate the response process

Operator Automation Backend (source: github)
- Deliver a web-based interface that allows non-technical users in Devoila to interact the Kubernetes environment
- Automatically create and control operators without specialized, technical knowledge requirement

Campus Manager Application (source: github)
- Deliver a Java application for managing the university campus
- Consist of basic CRUD operations (create, read, update, delete, join) and loading/importing data