Ning An

Computer Science (M.Sc.)

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Certifications

- Certified Kubernetes Application Developer

2023.03 - 2027.03

- Certified Kubernetes Administrator

2023.03 - 2027.03

- AWS Cloud Practitioner

2023.12 - 2026.12

Language

- English (fluent)
- Chinese (native)
- Danish (module 2/5)

Hobbies

- Swimming, jogging, yoga
- Badminton, table tennis

Contact

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Profile

I have been working with full-stack development, specializing in **React, Next.js, Node.js, and Python**. Passionate about staying updated with the latest technologies, I gained **Certified Kubernetes Application Developer** and **Certified Kubernetes Administrator** by self-learning. Around 2 years of experience as a **Test Engineer**, honed my skills including quality awareness, communication, and an organized approach to work.

Skills

- **Front-end**: JavaScript, Node.js, React, Next.js, Bootstrap, Tailwind
- **Back-end**: Ruby on Rails, Python, C#
- **Database**: MySQL, PostgreSQL
- **Data**: NumPy, Pandas, Matplotlib, Keras, PyTorch, sklearn, Beautiful Soup
- **CI/CD**: AWS, Kubernetes, Jenkins, Docker, GitHub, Git, Shell

Education

Computer Science (M.Sc.) **09.2021 - 07.2023**
Aalborg University

- Machine Learning, Distributed Systems, Haskell

Software Engineering (B.Eng.) **09.2014 - 07.2018**
Beijing Normal University, Zhuhai

- .NET Programming, Java Advanced Programming
- Web Interface Programming, Front-End Technology and Frameworks
- Database Systems, Data Structure, Computer Algorithms, Computer Network

Work Experience

Full Stack Developer - Internship **01.2024 - Now**
Senpage Consulting - Denmark

Tech Stack: React, Next.js, JavaScript, Restful API, PostgreSQL, Ruby on Rails

- Integrated Google login into website, enhancing user accessibility.
- Designed and implemented user profile page enabling skill recommendations based on user input. Utilized React, Next,js and Ruby on Rails.

System Test Engineer - Full Time **12.2017 - 11.2019**
Kingsoft Office Software Corporation Limited

Tech Stack: Jenkins, Charles Proxy, Xcode, macOS, Xmind

- Promoted from System Test Engineer intern to full-time employee within 7 months.
- Conducted system tests for approximately 70 functions and documented 1,570 defects, resulting in a 95% reduction in production issues.
- Developed an automated crash file analysis tool, resulting in a 50% improvement in collaboration efficiency between testers and developers.
- Collaborated with cross-functional teams to improve user experience metrics and resolve defects, resulting in a 90% reduction in production issues.

- Managed 4 customer groups (around 2000 individuals) in social media and was responsible for troubleshooting product defects, resulting in 100 % documentation of production defects encountered by customers, with 60 % reproduced.

Project Experience

Deep Learning-based Ensemble Method for Temporal Knowledge Graph Embedding in Link Prediction. 09.2022 - 07.2023
Aalborg University

Tech Stack: VS Code, Python, PyTorch, GitHub, AI Cloud, Docker

Project: This project focused on enhancing the accuracy of Temporal Knowledge Graph Embedding (TKGE) for link prediction in applications like question-answering / recommendation systems by leveraging deep learning-based ensemble methods.
Responsibility:

- **Dataset Generation**: Utilized libraries such as NumPy and Pandas to generate query datasets, ensuring data integrity and relevance.
- **Algorithm Implementation**: Implemented grid search, neural network architectures, and ensemble learning algorithms using PyTorch.
- **Model Training and Tuning**: Leveraged AI Cloud platforms to train and tune neural network models.
- **Model Evaluation**: Conducted thorough evaluation of model accuracy, validating the effectiveness of the ensemble approach in enhancing TKGE performance.
- **Result**: Successfully improved TKGE accuracy by 25% compared to the base model, resulting in a final grade of 100% on the exam.

Predicting Knee Ligament Properties with Neural Network Models to Assist Pre-operative Planning for Knee Surgery. 02.2022 - 07.2022
Aalborg University

Tech Stack: VS Code, GitHub, Python, sklearn, Keras

Project: This project focused on facilitating pre-operative planning for knee surgeries by predicting knee ligament properties using neural network models and traditional regression algorithms.
Responsibility:

- **Data Visualization**: Employed various visualization techniques to analyze and extract insights from knee ligament data.
- **Model Implementation**: Implemented regression algorithms including linear regression, Support Vector Machines (SVM), Random Forest, and XGBoost using Python's scikit-learn library.
- **Neural Network Modeling**: Utilized Keras to develop neural network models, comparing their efficacy with traditional machine learning algorithms.
- **Result**: Identified specific knee ligaments suitable for prediction using machine learning techniques, contributing to improved pre-operative planning for knee surgeries.