

NIE PENGFEI

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🎓 EDUCATION

Anhui Sanlian University, Anhui, China

Sep. 2010 – Jun. 2014

Bachelor in computer science and technology

👤 SUMMARY

Mobility Asia of volkswagen (China) LTD Hangzhou, China

May. 2019 – Present

Netease Hangzhou (China) LTD Hangzhou, China

Oct. 2017 – May. 2019

Citigroup Financial Information Services (China) LTD Shanghai, China

Oct. 2015 – Oct. 2017

UniSysTech Consulting (China) LTD Hefei, China

Oct. 2013 – Sep. 2015

👤 EXPERIENCE

Mobility Asia of volkswagen (China) LTD Hangzhou, China

May. 2019 – Present

volkswagen v2x preprocessing

Jan. 2022 – Present

Introduction: Consumed for different area messages, send abstraction messages to downstream components.

Technology: AOS,ROS,iceoryx,C++,CMake,conan etc.

Responsibility:

- Responsible for integration in vehicles, application and customer release of V2X functions of E3 2.0 for the Volkswagen Group brands in the Chinese market.
- Responsible for system, function quality and project quality.
- Responsible for implementing and execution of SW development activities on all levels (components, functions, testing, release) and ensure the harmonization and cooperation.
- Responsible for implementing functional and software specification development requirements, vehicle software interfaces definition of related hardware and software.
- Responsible for implementing multisource information fusion and resource estimation.

volkswagen Robotaxi Tiger

Jan. 2020 – Dec. 2021

Introduction: Consumed for different area messages, send abstraction messages to downstream components.

Technology: Spring Boot, Spring Cloud, Spring MVC, MyBatis, MySQL, Redis, Kafka, K8S, docker etc.

Responsibility:

- Start-up core member of robotaxi program analysis team, responsible for program analysis system research and development platform construction.
- Responsible for architecture design and business implementation.
- Responsible for design and implementation of trip service, dispatch service and management platform.
- Provided solutions for GEO data-related legality.
- Responsible for scheduling algorithm optimization and handling vehicle control instructions.

volkswagen cns3sop2 content management system(CMS)

Mar. 2019 – Jan. 2020

Introduction: Consumed for different area messages, send abstraction messages to downstream components.

Technology: Spring Boot, Spring Cloud, Spring MVC, MyBatis, MySQL, Redis, Kafka, K8S, docker etc.

Responsibility:

- Responsible for requirement splitting, modular task assignment, architecture design, interface definition.
- Provided encryption scheme of vehicle-based interface, JWT etc.
- Demand splitting, modular task assignment, interface definition, and service engineering construction.
- Develop core code, promote technology sharing, technology stack selection, upgrade and evaluation, and performance optimization.
- Responsible for cloud storage solutions(Huawei cloud OBS) and implementations.
- Responsible for logging design and tracing.

Netease Hangzhou (China) LTD Hangzhou, China

Oct. 2017 – May. 2019

Netease Kada

Oct. 2017 – May. 2019

Introduction: Kada is a programming education solution provider covering the K12 stage. <https://www.kada.com>

Technology: Spring Boot, Spring Cloud, Spring MVC, MyBatis, Dubbo, Redis, MySQL, Eureka, Zookeeper etc.

Responsibility:

- Demand splitting, modular task assignment, interface definition, and service engineering construction.
- Develop core code, promote technology sharing, technology stack selection, upgrade and evaluation, and performance optimization.
- Participate in the design and development of review systems, dynamic forms, certification systems, material tools, online lottery, work scoring, ranking List of other business modules.
- Implement database read-write separation middleware, and push it to other business groups.
- Develop service downgrade middleware based on open source Hystrix customized package for Dubbo calls.
- Leading the splitting of business modules, rebuilding the project structure, and realizing service based on Spring Cloud and Dubbo.
- Access to SCM and overmind of institute Netease Hangzhou to implement Maven standardization, environment isolation and service shuttle.
- Effective executors and promoters of engineering and configuration specifications, assisting the project team in code inspection. Instruct interns to familiarize themselves with projects, develop business needs, and share and train from time to time.

Citigroup Financial Information Services (China) LTD Shanghai, China

Oct. 2015 – Oct. 2017

Citi Document Master Central(DMC)

Dec. 2016 – Oct. 2017

Introduction: Provide document storage, management, sharing and permission control for various departments.

Technology: Spring MVC, TibcoJMS, MyBatis, Oracle, Jersey, MongoDB, Ativio, Redis etc.

Responsibility:

- Participate in the development and improvement of the core function modules of the project: authority control, document uploading and downloading, metadata automatic Extraction and so on.
- Participate in the performance test and performance tuning of front-end and back-end communication of the project, increasing the effective text transmission volume by 30%.
- Participate in the separation of front and back end of the core functions of the project, design and implement relevant Restful API.
- Micro-service Design and Implementation of Metadata Automatic Extraction Function Module.
- Participate in auto-based automatic script development and maintenance of the project.
- Permission system requirements analysis, design and development. Document redundancy and consistency checking mechanism algorithm. Design and development of background document management system.
- Middleware Restful interface development and documentation. Redis cache operations such as permissions and document attributes. MongoDB of the second-party package for the preservation of historical data.
- The Ativio search engine handles document searches. The TibcoJMS message notifies the business system of document attributes and permissions changes.

Citi CRM Master Central(CMC)

Jan. 2016 – Dec. 2016

Introduction: Information storage, sharing, authority control and data analysis of CRM in various departments.

Technology: Spring, Spring MVC, MyBatis, Oracle, Jersey, MongoDB, TibcoJMS etc.

Responsibility:

- Provide Restful interface and documentation. Establish permission control for access to CMC system.
- TibcoJMS message notifies the change of public information and private information of the business system.
- Historical data recorded to MongoDB and data processing of unconventional schema structures.
- Statistics and analysis of CMC application data, tracking and acquisition of change logs.

Citi Rates

Oct. 2015 – Jan. 2016

Introduction: About stock real-time analysis, securities investment transaction, G10 currency transaction.

Technology: Spring, Struts2, Hibernate, Oracle, Scobby, liborate.

Responsibility:

- Responsible for general problem logs bug fixes. Code refactoring and daily optimization.
- The production environment performance problem is fixed.

UniSysTech Consulting (China) LTD Hefei, China

Oct. 2013 – Sep. 2015

Scotiabank Registration

Jan. 2015 – Sep. 2016

Introduction: Provide Scotiabank employee qualification evaluation platform, realize the connection with the national NRD database system, and realize the talent qualification evaluation and storage.

Technology: Spring, Spring MVC, Mybatis, Activiti, MySQL, Spring Batch, Maven etc.

Responsibility:

- Online Application module development, combined with Activiti to implement workflow to complete qualification review and promotion.
- The EOD jobs module, combined with Spring Batch, executes batch jobs to complete batch operations of employee data.
- Realize the connection between External System and NRD database.
- Reports module, follow-up report of qualification review and review display.

Scotiabank Protection System (SPS)

Oct. 2013 – Jan. 2015

Introduction: Scotiabank provides insurance product sales platform to third-party insurance companies.

Technology: Spring, eJSF, eSOA, DB2 etc.

Responsibility:

- Responsible for domestic Scotiabank branches in the Global module.
- Responsible for insurance companies and products in the Country module.
- Responsible for dynamic forms in the Customer module.
- The settlement process of the Sale module and the development of the Post Sale after-sales service process.

SKILLS

- Solid knowledge in some popular programming languages. Specially in Java, C/C++ and Python. Learn about common Linux instructions, and can use the shell to write automated management tools.
- Understand common development frameworks such as Spring, MyBatis, SpringMVC, SpringBoot, etc.
- Solid knowledge inter-thread communication and multi-thread programming.
- Have Redis, Kafka middleware development experience. Have experience in micro-service architecture design, and can independently carry out project development and maintenance management.
- Strong C/C++ programming and debugging skills and related build tools such as CMake, shell, conan etc.
- Solid knowledge of design and development in embed environments such as Autosar, QNX or embedded Linux.
- Solid knowledge of ROS, deep understanding sub/pub communication mechanism. Knowledge of ADAS/ADAP.
- Good business English skills (written and spoken), native Chinese language skills.

HONORS AND AWARDS

- Languages: English - Fluent (CET-4), Mandarin - Native speaker.

READ ME

- Love life, love technology, pay attention to the accumulation of professional knowledge.
- Creator who is willing to share, cheerful and has a good team atmosphere.
- Positive work attitude, focused attention and responsibility.
- Experienced software engineer who constantly seeks out innovative solutions to everyday problems.
- Have honed my analytical thinking and collaboration skills, and love working teams.

MISCELLANEOUS

- GitHub: <https://github.com/pengfeinie>
- Home: <https://pengfeinie.github.io/>
- Blog: <https://blog.csdn.net/pfnie>