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**求职意向：Python/R/SQL/NodeJS/Java 数据分析**



教育背景

**上海财经大学 信息管理与信息系统 本科 2013.09-2017.06**

•学习成绩: GPA 3.86/4.0**（年级前 5%）** •主修课程: 信息系统分析与设计，面向对象程序设计，Web 程序设计，数据库，综合设计实验

**上海财经大学 会计学 第二专业 2014.09-2017.06**

•学习成绩: GPA 3.82/4.0**（二专前5%）** •主修课程: 财务管理，中/高级财务会计，会计信息系统，财务报表分析，管理会计



工作经验

**GE Healthcare Global DST Team (Digital Analytics SW Engineer) 上海 2018.08-至今**

**Tube Watch Predictive Tool Development 2022.1-至今**

**• 项目背景：**对CT Apex设备工作时产生的log数据进行分析和处理，根据特定的16种故障分析算法创建预警实时报送给工程师，并给出相应的故障排除方案，以便工程师能提前处理可能发生的故障并节约故障分析和处理的时间。

**• 工作内容：**首先与CT Apex Engineering team的算法专家合作，使用**Python/R**对包括Excel, JSON, TXT, Postgres及MongoDB等多源数据进行分析并创建16种故障分析算法。然后构建基于 **NodeJS +Express** 的技术架构，创建数据输入和输出模型，跨部门合作创建**Linux Shell Script**实现从远程设备上进行实时数据提取，并采用面向对象和设计模式编程思想集成算法逻辑，并将算法执行结果存入 **MongoDB** 数据库。另外，使用**Spotfire**创建Dashboard可视化报表来展示预警结果及各个算法模型的历史趋势图表，以进行结果验证同时给相关部门提供数据参考。

**• 项目成果：**系统开发已经完成，**PRD/SDD/Test Result**等文档已提交，计划于2023.6月份正式上线。proactive类算法准确性达到**98%**预计可提前**4-24小时**创建预警，predictive类算法准确性达到**67%** 预计可提前**1-3个月创建预警**。Spotfire Dashboard得到相关部门的一致认可，为算法团队提供算法的准确性报告以便改进算法，为CT 工程师团队报送实时预警极大节省了故障分析和处理时间，为Marketing部门提供CT各组成部分的故障分析和结果数据以反馈给客户。

**CT IB Health Dashboard Development 2019.8–2021.12**

**• 项目背景：**创建Spotfire Dashboard以对全球 CT 产品线（1.5w+）的系统进行系统化地管理和监控，基于不同的设备组件展示相应数据模型图表，包含展示所有系统整体信息和状态的Fleet View以及针对单个系统具体信息的Cockpit View.

**• 工作内容：**首先与全球各个地区的工程师团队定期会议整理需求并编写 **PRD**。然后针对不同模块收集不同来源（Postgres/MongoDB/Documents/Excels）的数据并创建可扩展的易于管理和修改的数据模型，根据相应的输出模型创建 **Python/R**scripts 对源数据进行处理和分析，然后将这些 scripts 集成在 **Spotfire** 中，创建用户偏爱的 UI 输 出数据模型，分配到各个页面中。

**• 项目成果：**Fleet View针对**14个功能模块**提供超**30个页面**，Cockpit View针对单个系统提供更细化的数据超**20个页面**，Dashboard已上线且已经迁移至Cloud。Training已经完成，全球工程师正常使用中，据统计Dashboard可节省工程师约**60%**的设备状态检测时间和约**40%**的故障分析时间。

**NM Motion BAT Tools Development 2018.8-2019.7**

**• 项目背景：**开发web trouble shooting 工具，为 NM 系列的产品工程师提供最方便快捷且有效的故障分析及解决方案。它旨在自动化分析engineer上传的 data log，以创建Excel故障分析报告及推荐相应的故障解决方案，并将报告实时发送给engineer以节精准定位故障节点节省购买额外设备的成本，同时节省engineer的故障分析和处理时间。

**• 工作内容：**首先与全球NM设备的工程师团队合作，使用**Python/R**对log数据进行分析，创建了13种针对性的故障分析模型并创建**PRD**，然后根据模型所需的数据创建**Linux Shell Script**以便从远程设备上实时提取数据为datalog。与前端工程师一起搭建基于**NodeJS+Angular**的web网站，主要负责后端模型逻辑的实现并创建数据输出模型以将分析结果存储在**MongoDB**数据库中，并负责处理工程师用户的反馈及模型改进。

**• 项目成果：**PRD/SDD/Test plan/Test result 完备，系统成功上线，正常使用及维护中，定期与工程师团队会议进行结果验证、模型改进和处理新的需求，据统计节省了NM 工程师**60%**的分析处理时间。

**万达金融集团有限公司 技术研发部（java 系统开发） 上海 2017.07-2018.08**

**信贷核算业务解耦-“金融库”开发**

**•项目背景：**为实现信贷核算业务解耦，开发单独支持核算业务（EOD 和实时）的纯 java 原型库，即金融库。

**•工作内容：**设计以业务为导向的产品配置，涵盖产品的放款、日终和还款业务逻辑；用**PowerDesigner**进行**UML**建模，针对不同业务定义输入输出模型；用**面向接口和 java 设计模式**编程来封装业务逻辑，通过**自定义注解**来标记业务逻辑类，系统启动时扫描所有产品配置来静态存储产品上下文，支持用**多线程**来并发处理多笔借据；设计基于**TestNG**的全流程测试框架。

**•项目成果：**金融库开发测试已完成，完成测试数据共 **203 组**，日终处理的性能达到借据的平均处理时间为 **10ms**。PRD/SDD文档已提交。

**基于微服务提供访问“金融库”的 RESTfulAPI**

**•项目介绍：**金融库开发完成后，考虑到应用系统的实际应用需求，设计用微服务来暴露金融库的各项业务接口。

**•工作内容：**搭建基于**Spring Boot**的微服务框架，用**Maven**进行jar包管理，应用系统通过HTTPS请求来访问**RESTful API**以实现访问金融库；测试用 yml 文件模拟应用系统输入的参数，通过Spring RestTemplate来执行post 请求，并将执行后的数据与预期数据比较。

**•项目结果：**单笔借据的测试已完成，批量测试进行中。



技能证书

• Python, R, SQL, NodeJS, Java, Git, Maven, Power Designer, Visio, MS Office

• 英语CET-6良好的英语听说读写能力，会计从业资格证



自我评价

•**工作背景：**外企5年的数据分析、数据处理和基于数据分析的软件开发经验以及1年的金融产品后端开发经验。熟悉Python、R等数据分析语言以及NodeJS、Java等软件开发语言。熟练掌握SQL语言和MongoDB非关系型数据库以及Oracle、MySQL、Postgres等关系型数据库。擅长复杂数据环境下的数据提取和数据建模，多次针对不同业务就数据抓取和数据逻辑处理提出建议和见解。同时具备用UML编写文档的能力。

•**个人素质**：逻辑清晰，执行力强。擅于沟通有过多次跨团队合作经验，勇于承担责任愿意主动学习。

**Jing Yang**

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**Job Intention: Python/R/SQL/NodeJS Data Analyst**



Education

**Shanghai University of Finance and Economics, Shanghai 2013.09-2017.06**

Bachelor of Management: Information Management and Information System GPA 3.86/4.0(top 5%) **Shanghai University of Finance and Economics, Shanghai 2014.09-2017.06**

Bachelor of Management: Accounting GPA 3.82/4.0(top 5%)



Work Experience

Work Experience

**GE Healthcare Global DST Team (Digital Analytics SW Engineer) Shanghai 2018.08-Now**

**Tube Watch Predictive Tool Development 2022.1-now**

**•Background:** Process and analyze the log data generated when CT Apex equipment is working, create early warnings and report them to engineers in real time according to 16 specific failure analysis algorithms, and provide corresponding troubleshooting solutions so that engineers can deal with possible failures in advance and save time in failure analysis and processing.

**•Job Desc:** Firstly, cooperate with the algorithm experts to analyze multi-source data including Excel, JSON, TXT, Postgres and MongoDB using **Python/R**, and create 16 kinds of failure analysis algorithms. Then build a technical architecture based on **NodeJS +Express**, create data input and output models, **create Linux Shell Script** through cross-departmental cooperation to achieve real-time data extraction from remote devices, and use object-oriented and design pattern programming to implement algorithm logic. The execution result is stored into **MongoDB** database. In addition, use **Spotfire** to create a Dashboard visualization report to display the early warning results and the historical trend charts of each algorithm model to verify the results and provide data reference for relevant departments.

**•Project Status:** The implementation has been completed, PRD/SDD/Test Result and other documents have been submitted, and it is planned to be officially launched in June 2023. The accuracy of the proactive algorithms reaches **98%**, and it could create early warnings **4-24 hours** in advance. The accuracy of the predictive algorithms reaches **67%**, and it could create early warnings **1-3 months** in advance. Spotfire Dashboard has been widely used and highly praised.

**CT IB Health Dashboard Development 2019.8-2021.12**

**•Background:** Create Spotfire Dashboard to manage and monitor the global CT sites(1.5w+), display corresponding data charts based on different equipment components, including Fleet View showing the overall information and status for all sites and Cockpit View showing specific information for a single site.

**•Job Desc:** Start with the cooperation with global engineers to collect requirements and write the PRD. Then collect data from different sources (**Postgres/MongoDB/Documents/Excels**) for different modules and create corresponding data models, create **Python/R** scripts according to the output models to process and analyze the source data, and then integrate them within **Spotfire**, create user-preferred UI views, and assign the data models to corresponding page.

**• Project Status:** Fleet View provides more than **30 pages** for **14 functional modules**, and Cockpit View provides more than **20 pages** of detailed data for a single system. Dashboard has been launched and has been migrated to Cloud. Training has been completed. The Dashboard has been widely used by global engineers . According to the research, it could save engineers about **60%** of equipment status detection time and about **40%** of failure analysis time.

**NM Motion BAT Tools Development 2018.8-2019.8**

**• Background:** Develop web trouble shooting tool to provide NM series product engineers with the most convenient, efficient and effective failure analysis and solutions. It aims to automatically analyze the data log uploaded by the engineers to create an Excel failure analysis report and recommend corresponding failure solutions and send the report to the engineers in real time to accurately locate the failure node, save the cost of purchasing additional equipment, and save the time of manual analysis and processing.

**• Job Desc:** Firstly, cooperate with the global engineers related with NM equipment, use **Python/R** to analyze the log data, create **13** kinds of failure analysis models and create PRD, and then create **Linux Shell Script** according to the required data to be able to extract data in real time from remote sites. Work with front-end engineers to build a web site based on **NodeJS+Angular**, mainly responsible for the implementation of back-end model logic and create data output models to store analysis results in the **MongoDB** database, and handle feedback from engineers as well as improve the models.

**•Project Status:**PRD/SDD/Test plan/Test result have been completed; the tool has been released and in use. It could reduce **60%** of the analysis time for engineers.

**Wanda Financial Group Technology Development Dept(Java System Develop) Shanghai 2017.07-2018.08**

**Decoupling of credit accounting business – development of “financial library”**

**•Background:** Develop a pure Java prototype library to allow execute accounting business(both EOD and real time) alone in order to decoupling credit accounting business from whole system.

**•Job Desc:** Design products config based on businesses, including the logic of **loaning, EOD, and payment**; Design **UML** model with **PowerDesigner**, define input and output models corresponding to different businesses; Implement business logic based on **object-oriented interface and design patterns**, mark business logic classes by **custom annotation**, scan all product configs to save products context staticky when loading the system; Support **multiple threads** to deal with the loans synchronously; Design test framework based on **TestNG**.

**•Project Status:** The development and testing of the financial library has been completed, with a total of **203** sets of test data, and the performance of end-of-day processing has reached the average processing time of IOUs of 10ms. PRD/SDD documentation submitted.

**Develop RESTfulAPI based on micro service**

**•Background:**After the development of “financial library”, design to provide APIs based on micro service.

**•Job Desc:** Build a micro service framework based on **SpringBoot**, manage jar libraries with **Maven**. The main system can access to the “financial library” by HTTP requests; Using **SpringRestTemplate** to fork post requests and compare the actual results with the expected results.

***•Project Status:*** Already finished the testing for single loan and batch loans testing is ongoing.



Skills & Certificates

Skills and Certifications

**•Skills:** Python, R, SQL, NodeJS, Java, Git, Maven, Power Designer, Visio MS OFFICE.

**•Certificates:** Certificate of Accounting Profession, CET-6, Scholarship certificate of Shanghai University of Finance and Economics