

Chandler Mai

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Experience

2019.7-Now Work in Charter Communications, Inc. – Senior Big Data Engineer & Architect (Team Lead)

- Lead team of Spectrum Connectivity Platform (SCP) and Spectrum Community Solution (SCS)
- Mentor and lead junior developers in both design and technology.
- Write HQL, Spark, Bash and Python code that meets the production requirements and design specifications.
- Create automatic Spark framework to allow zero-spark experience developer convert Hive query to Spark query.
- Be a thought partner within the group, supporting the developments of insights, processes, and information that is valued by the business.
- Experiment with new methodologies to efficiently solve problems over multiple teams.
- Provide universal utility tools to reduce redundant development.
- Innovate and optimize automatic script and process for validation and reporting.
- Programmatically QA and validate new and existing reports and analytics for proper and efficient execution and adherence to business and technical requirements.
- Setup designing standards and coding conventions. Ensure peers are following standards and best practices.
- Design, develop, and implement complex reports and analytics.
- Expertly use analytical tools to provide insight and make recommendations.
- Interact with various stakeholders to understand their business needs, communicate project status and develop relationships to ensure satisfaction.
- Provide ad-hoc analysis to address specific business questions from stakeholder groups.
- Maintain accurate documentation of reporting processes.
- Monitor job failures and provide production support.

2017.5-2019.7 Worked in Charles Schwab Corporation - Software Engineer & Data Engineer

- Deep understanding of distributed computing principles algorithms and systems.
- Lead the projects of data ingestion, curation and analysis, e.g. Interaction Depot, Verint and Syntasa (Google Cloud Platform).
- Experienced in resolving any open issues and providing excellent production support.
- Proficiency with Hadoop v2, MapReduce, HDFS, MapR 6.0.1, YARN, Google Cloud Platform, Gsutil, Hive, HBase, Big Query, Spark 2.0.1, Dirll 1.9, Python 2 & 3, Talend Studio.
- Experienced in application and data migration.
- Proficiency with in integration of data from multiple data sources.
- Solid experienced in an Agile (Scrum) environment.
- Knowledge of various ETL techniques and frameworks.

2013.2-2017.5 Worked in Gaming Laboratories International, LLC - Software Engineer

- HTML, CSS, JavaScript, JQuery, AngularJS and website/windows form design.
- ASP.Net MVC and Entity Framework.
- AJAX, LINQ, SQL, JQGrid, Entity Framework, Dev Express.
- Software applications/databases and proprietary databases.
- SQA testing.

2009.3-2012.10 Worked in Shenzhen INVT Electric Co., Ltd - Software and Hardware Engineer

- Detection and service of transducers, including single boards and complete machines.
- Manage the technics and quality of low tension transducers production lines.

- Participate in designing and manufacturing of the large scale checkout equipment.
- Develop new generation circuit boards of transducers including control boards, drive board and power supply board.

2008.1-2008.12 Worked in Luoyang Peony Communication Co., LTD - Entry Level System Engineer

- Designing and implementing new network solutions for China Telecom and configuring/troubleshooting the issues of current network devices, including Cisco catalyst switches, Zywall routers and Juniper hardware firewall. Investigating daily faults in the network.
- Arranging and performing scheduled firmware upgrades.
- Experienced in TCP/IP and major layer 1- 4 network protocols.
- Procuring voice networking equipment and managing subcontractors involved with voice network installation.
- Coordinating escalated issues as a great team player at different level in organizations.

Technical Skills

Programming: C, C++, C#, JAVA, Visual Basic, Python, SQL, Ruby, Objective C, Fortran, CUDA
OS/FS: Linux/Unix, Windows, iOS, MS-DOS, Android, Hadoop Distributed File System, MapR, YARN
Databases: Hive, Spark, Big Query, T-SQL, MySQL, NoSQL (HBase, Neo4J, OrientDB), Teradata, Informatica
Web Page Design: HTML, HTML5, XHTML, XML, ASP.Net, MVC, JavaScript, JQuery, AngularJS, AJAX, CSS3

Project Management: Jira, GitLab, Bitbucket, Azkaban, Jenkins, Bamboo, Docker, Maven, Chalk, Confluence
Integrated Development Environment: Visual Studio, Xcode, Eclipse, NetBeans, Atom, Android Studio, PhoneGap, jGrasp, Cygwin
OS Applications: VirtualBox, VMware Player, VMware vSphere
Database Applications: SQL Server Management Studio, Nexus, SQL Workbench/J, DBeaver, Teradata
Network Applications: Cisco VPN, Putty, SSH Secure Shell
Repository Applications: Git (GitHub, Git Bash); Mercurial (TortoiseHg)

Education

2013.9-2017.6	University of Colorado Denver (Master of Science)	Major: Computer Science
2011.9-2012.12	Arapahoe Community College (Undergraduate)	Major: Computer Science
2005.9-2009.6	Wu Han University of Technology (Bachelor of Engineering) Information Engineering College (One of the 50 top universities in China)	Major: Electronic Science and Technology

Project of graduate innovation lab

- Pipeline Branch Prediction Strategies and cache simulation (Realize the cache simulation by using Gcc, Jpeg and Perl).
- Parallel Processing with MapReduce in Big Data System (Evaluate WordCount runtime by using Hadoop).
- Stock Market Trend Prediction and Trading Simulation (Python with NumPy).

Academic Main Courses

Theory: Advanced Computer Architecture, Theory of Automata, Parallel and Distributed System, Software Architecture
Operating Systems: Operating System
Databases: Database Design and Development
Network: Computer Network
Advanced: Artificial Intelligence
Application: Complete Web Authoring: HTML & XHTML, Shader and GPU Programming, Simulation
Programming: C Language Programming, Object Oriented Programming in C++, Java (Object Oriented and Data Structures), Java Programming and Object-Oriented Application Development, Advanced Programming