Mohan Narayanaswamy

SOFTWARE ENGINEER

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Summary _

- Built applications using Java, JavaScript (and React), Go, Scala, Python, HTML, CSS, SQL
- Strong advocate of Functional Programming, Properties Based Test Framework
- Built cloud applications using Spring-Boot, Cassandra, ElasticSearch, Lucene and Kubernetes
- Proficient in version control, continuous integration and scripting (e.g., Git, Maven, shell)
- Core infrastructure development experience High availability investment banking cloud applications

Certifications

- CKAD: Certified Kubernetes Application Developer The Linux Foundation
- Apache Cassandra 3 Administrator Associate Certification DataStax
- Spring Professional Pivtoal Software, Inc
- Functional Programming Principles in Scala ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
- Principles of Reactive Programming (using Scala) ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE
- CS190.1x: Scalable Machine Learning-Apache Spark The University of California, Berkeley through edX

Experience

Sr Lead Software Engineer | Macro eTrading Rates Derivatives | MACS | Vice President

JP Morgan | Singapore

MACS-CIB Dec. 2018 - Current

- Built multiple features for Rates Derivatives Product on OMS using FIX protocol and AMPS data bus
- TOB book onboarded using Athena/Hydra, Python, AMPS
- Integrated auto-quoting feature for RFM/RFQ for rates product for Bloomberg, TradeWeb venues
- Enhanced RDM to manage interest rate swap market data from external venues such as Bloomberg, TradeWeb
- Software Engineering Manager for Margin and Collateral APAC development
- Built margin calculation investigation portal with ticket matching and un-structured data reconciliation (using DAG).
- Enriched multiple applications (using ELK/Grafana/Jaeger) with technology stack of Spring Boot, React, Kafka, ElasticSearch and Apache Cassandra.

APAC Reference Data Engineering Manager | Scala Developer | Semantic Data Model | Vice President

Bank of America | Singapore

REFERENCE DATA-GMOT

- **DATA-GMOT** *Jul.* 2014 Dec. 2018
- Software Engineering Manager for APAC client reference data application development team
 Develop application, scripts and data pipelines to process structured data near real-time
- Developed Spark rules on Cloudera Hadoop distribution for Data Quality Checks.
- Built Business process workflow for Japanese fund on-boarding applications.
- Built parser for bpm workflow DSL using PEG.js and natural language processor to deduce duplicate entities using Apache Lucene.

Java Developer | InMemory Data Grid

ANZ | Singapore

LUXOR DEVELOPER-GMOT Sep. 2012 - Jul. 2014

• Built TradeRepository for OTC trades supports Rates, FX, and Commodities using Gemfire NoSQL InMemory Data

- Monte-Carlo simulation engine accesses data using 1000 core HPC grid.
- Developed an automated testing framework to replay 1000s of combinations of OTC Trade lifecycle.
- Built reconciliation for backward binary compatibility and regression-testing.

Risk Software Engineer | Mu/Haskell Quant Tools

Standard Chartered Bank|Singapore

SABRE INTRADAY RISK PLATFORM May. 2011 - Sep. 2012

- Developed End-of-Day reconciliation system for MUREX flow trades using embedded database.
- Server side javascript development, stream MXML as Trade Data Repository objects.
- Mu-Script/Haskell development that calculates risk for Interest rate product.
- Developed JUnit tests for Rates and FX derivatives pricing engine.

Investment-Bank Developer | Java/Spring Framework

Credit Suisse|Singapore

Apr. 2007 - May. 2011

- SOFTWARE ENGINEER • Built many applications using Java and Spring Framework.
 - Acted as APAC Java Application Platform Architect.
 - Built code analyzing graph tool to find duplicate components.
 - IT Solution Architect for Private Bank applications.
 - Lead a team of java developers to build applications for Private Bank.

Investment-Bank Developer | Java/Spring Framework

Standard Chartered Bank|India

SOFTWARE ENGINEER

Dec. 2004 - Apr. 2007

• Built applications using Java and Struts Framework.

Developer | Java/Visual-Basic

Aspire Systems India Oct. 2002 - Dec. 2004

SENIOR SOFTWARE ENGINEER

Developer | Visual-Basic

Bharatplant Consulting Ltd\India Feb. 2000 - Oct. 2002

SOFTWARE ENGINEER

Personal Projects and Certifications ___

DailyPractice.info

- Creating learning habits, specially `Mathematics` for kids in remote villeges of India
- Organizing volunteer meetups, sponsoring `Mathematics` competition, bringing awarness about education to parents who are farmers or economically challenged.

Education

University of Madras

Chennai, Tamil Nadu

MASTER OF COMPUTER APPLICATIONS

Jan. 1999 - Dec. 2001

University of Madras

Chennai, Tamil Nadu

BACHELOR OF SCIENCE [MATHS]

Jun. 1994 - Oct. 1997