

# Rohan Grover

San Francisco, CA, United States

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## Skills

### Likes

python, java, hadoop, spark, nlp, data-engineering, distributed-computing, OOP, functional-programming, agile, git, unix, bash, development-management, application-development

## Experience

### Senior Software Engineer - Vice President

San Francisco, United States

BLACKROCK

Jan. 2017 - Current

*python, java, hadoop, spark, nlp, jupyter, scala, typescript, angular, rxjs, ngrx, spring, development management*

I am working with the fixed income alpha generation technologies team and have previously worked with the portfolio management tools team building, enhancing and supporting fixed income portfolio managers and researchers develop and deploy alpha generating ideas.

- Managing, leading, designing, implementing and establishing SDLC and CI/CD processes for big data processing platform for alpha generation research. ( Python, Solr, Hadoop, Spark, Bash, Monorepo, Maven, SparkNLP, Java, Scala )
- Designing and implementing python client API library for text analytics. ( Python, Solr, Jupyter, Zeppelin, Pyspark, NLP, Scala )
- Enhanced alpha generation python framework with new data loader and signal implementations. ( Python, NumPy, Pandas )
- Designed and implemented a portfolio targets CRUD and monitoring app. ( Java, TypeScript, Angular, NgRx, RxJs )
- Led team to successfully deliver multiple feature enhancements to the portfolio management tools and implement dynamic auto scaling of services infrastructure. ( Java, Zookeeper, Design Patterns )

### Software Engineer - Associate

San Francisco, United States

BLACKROCK

Aug. 2013 - Dec. 2016

*java, python, javascript, perl, unix, sybase, weblogic, jboss7.x, java-ee, spring, hibernate, apache-zookeeper, guava, sharding*

I was working with portfolio management tools team and the core client processing team, building, enhancing and maintaining multiple technology solutions supporting fixed income portfolio managers and back-office business operations respectively.

- Participated in analysis, design and development of distributed fixed income portfolio management application. ( Apache Ignite, Zookeeper, HSQL, Swing, Functional paradigm, Concurrent )
- Analyzed, designed and ported legacy C# file formatting libraries to python. ( Jinja2, Python )
- Enhanced a fund order pipeline system for key connectivity enabling quicker order placement for cash PMs
- Participating in the design and development of a new client order management system. ( Java, SDLC, Agile, AOP frameworks, SQL, data modeling )
- Modernizing legacy apps, Weblogic to JBoss migration, Consolidation of business processes and related applications. ( J2EE, Unix )
- Enhancing and maintaining a message processing app ecosystem comprising of various service oriented modules spread across multiple technologies. ( Java, MQ, Perl and T-SQL on Sybase )
- Built a client facing web app using YUI, JS, JSP, Java, Weblogic and Sybase.
- Wrote multiple perl scripts for ad-hoc reports, data analysis and task automation.

### Software Engineer

Jersey City, United States

FINANCIAL SCIENCES

Jan. 2009 - Aug. 2013

*java, javascript, ajax, sql, html, perl, weblogic, sybase, oracle*

I was working on the full suite of Financial Sciences' Treasury Management products, developing new applications for the suite and continuously enhancing the internal development framework and toolkit which is used for building new applications.

- Designed and implemented a forex accounting engine and a cash management engine based on BAI2 format. ( Java, Caching )
- Designed and implemented an OLAP based real time data analysis system as a product. ( Pentaho's mondrian, SOAP, Java, JavaScript )
- Designed messaging engines based on the FIX protocol and Bloomberg's Fixed Income Auto Execution Protocol. ( Java, Concurrency )
- Led the design and integration of Flash charts into internal SDK. ( ActionScript 3.0, JavaScript )
- Led the integration of OWASP-ESAPI web application security control with internal SDK.
- Designed and implemented a high-volume data processing engine which parsed and processed external XML formatted data. ( Java )

## Education

### M.S. Computer and Information Science

Philadelphia, Pennsylvania

UNIVERSITY OF PENNSYLVANIA

Aug. 2007 - Jan. 2009

*machine learning, software engineering, python, ruby, matlab, sql, java, js*

- Implemented various Machine Learning algorithms in matlab.
- Designed and developed a Google map based location social network, a la Google latitude, but before Google latitude came out.
- Implemented a socket based distributed mail system.