

## Contact

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## Top Skills

Python (Programming Language)  
Stack  
Product Vision

## Languages

English (Full Professional)  
Hindi (Full Professional)  
Tamil (Native or Bilingual)

## Certifications

Android Development:  
Understanding Intents  
The Secret to Better Decisions: Stop  
Hoarding Chips  
Android Development Essential  
Training: 2 User Interface Design  
Android Development Essential  
Training: 1 Your First App  
Getting started with Amazon  
ElastiCache

## Patents

DYNAMIC VARIATION-MATCHED  
PRICING SYSTEM FOR RETAIL  
PRODUCTS

# Vinod Jayachandran

Senior Software Development Engineer at AMAZON  
DEVELOPMENT CENTRE (INDIA) PRIVATE LIMITED  
Chennai, Tamil Nadu, India

## Summary

### 1.1. Technical

Have industry-leading technical abilities. Demonstrate a breadth and depth of knowledge in the following disciplines:

- Recognize and adopt best practices in software engineering: design, testing, version control, documentation, build, deployment, and operations.
- Write high quality, maintainable, and robust code, often in Java.
- Solve problems at their root, stepping back to understand the broader context.
- Develop pragmatic solutions. Build flexible systems without over-engineering and choose simple, straightforward solutions over more complex ones.
- Understand a broad range of data structures and algorithms and know how, when and when not to use them.
- Recognize and use design patterns to solve business problems.
- Understand how operating systems work, perform and scale.

### 1.2. Business

Build software for business' sake, not for technology's sake. To this end, have the following characteristics:

- Have an understanding and empathy for customers and business objectives, particularly those aspects relevant to my team and my division.
- Continually align my work with company's business objectives and seek to deliver business value.

### 1.3. Leadership and values

Work in a team, driving things forward and exhibiting the following characteristics:

- Collaborate to ensure that decisions are based on the merit of the proposal, not the proposer. When none of the proposals is the obvious winner, are still decisive and commit to the team's decision.
- Continue to move forward in the face of ambiguity and imperfect knowledge. Do not suffer from "analysis paralysis".

- Build good working relationships within the team and with others across organization
- Proactively support knowledge-sharing within the team and across division.
- Communicate clearly both verbally and in writing with team and with other groups.

Specialties: Software Products design, architecture and development

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## Experience

### Amazon

Senior Software Development Engineer

December 2020 - Present (4 years 2 months)

Chennai, Tamil Nadu, India

As a Senior Engineer for Amazon Appstore, I have architected and built the following

1. AI based Discovery and Recommendation of products from catalog
2. Points based loyalty for customers
3. Localisation from Cloud
4. Performance optimization (Memory, Latency, CPU, Fluidity) for Android Apps on Fire TV
5. User Profile Management on Fire TV
6. Monetisation

### Responsibilities

Individual Contributor as technical architect involving design, code review and implementation of software products

### Lowe's India

Associate Director

November 2018 - December 2020 (2 years 2 months)

Bangalore Urban, Karnataka, India

Market Intelligence through Data engineering pipelines. Help the retailer be profitable through competitive pricing.

For a list of product URLs, establish exact/similar match with a list of competitors and provide useful insights such as price, variants, availability, product features etc periodically.

#### Responsibilities :

1. Lead a team of engineers and product managers in the ideation and technical development of innovative enterprise software to streamline and automate critical business processes
2. Provide strategic and operational oversight for Enterprise software product development
3. Work closely with business leaders to develop short and long-term strategies
4. Manage business expectations, resolve conflicts, and keep businesses aligned
5. Develop and drive execution on 6 months and 1-year road maps
6. Drive innovation, establish new approaches in improving productivity
7. Establish a metrics based organization, develop key operational metrics and push for continuous improvement.
8. Ensure system security, data integrity, and accuracy of financial records

Technologies : Apache Beam, Azkaban, Snowflake Data warehouse, Java, Mysql, Jenkins, Elastic Search, Docker etc.

AWS Services : S3, SES, EMR, Batch, SQS, Kinesis

GCP : Cloud Functions, Dataflow, Secret Manager, GCS, PubSub, IAM

#### BankBazaar India

3 years 8 months

##### Software Development Manager

December 2017 - November 2018 (1 year)

Bengaluru Area, India

1. Consume events from multiple micro services via Kafka messaging queue
2. Use Kafka Connect JDBC source to pull table records from database to Kafka Messaging queue
3. Use Kafka Connect S3 sink to copy messages from Kafka topic to AWS S3
4. Execute Map Reduce job on AWS data pipeline and persist denormalized data to AWS redshift database.

Key words : Apache Kafka, AWS Data pipeline, Redshift, S3, Map Reduce Jobs

##### Senior Technical Lead

May 2017 - December 2017 (8 months)

Bengaluru Area, India

### #Batch Analytics

Consume large volumes of data from multiple sources from database or file  
Execute Map Reduce jobs in a cluster and produce meaningful data  
Upload output of Map Reduce data back in a distributed data store for consumption by BI - Analytics

Role : Architect, Design and Implement

Keywords : Quartz, AWS, S3, Redshift, Elastic Map Reduce

### Technical Lead

April 2015 - May 2017 (2 years 2 months)

Bengaluru Area, India

#### # Personalisation and Recommendation Engine

Build user profiles with real time analytics. With the built in user profiles personalise the experience for revisiting users and cross sell financial products with recommendation engine.

#### # Bank Transaction Analysis

To enable instance loan disbursal, Bank Transactions were analyzed and categorized, thus enabling banks to approve/disapprove loan requests faster.

#### #OAuth 2.0 client implementation

For social logins (Facebook/Google) from bankbazaar.com, Implemented OAuth 2.0 which address various security vulnerabilities

#### # Scrapping for documents from 3rd party websites

The proof documents (Bank Statement, Form26 AS, Aadhar etc) required to be submitted for various financial products were scrapped from the corresponding websites.

Role : Architect, Design and Implement

Keywords: Java, Spring, REST APIs, Cassandra, Big Data, Quartz

### Software AG

3 years 9 months

#### Engineering Specialist

March 2013 - April 2015 (2 years 2 months)

#### # Feature Developments for WebMethods Integration Server

webMethods Integration Server is one of the core application servers in the webMethods platform. It is a Java-based, multiplatform enterprise integration

server. It supports the integration of diverse services, such as mapping data between formats and communication between systems. An integration server may also be known as the core of webMethods Enterprise Service Bus (ESB).

#### # Command central plugins for Integration Server

webMethods Command Central, also a new product, customers can now provision and control functionality to streamline deployment options in hybrid cloud environments. Developed plugins for Command central which would interact with Integration server.

#### # webMethods Enterprise Gateway

webMethods Enterprise Gateway, you can secure and manage the connectivity between mobile apps and internal enterprise resources, allowing only authorized users, apps and devices. Not only can you quickly build enterprise-grade mobile apps, you also gain analytics for optimizing usability. Enterprise Gateway is a DMZ-deployable solution with drop-in configuration and implementation for webMethods.

Developed Denial of Service (DOS), SQL Injection Prevention and Anti virus scan for incoming payload in webMethods Enterprise Gateway.

#### Senior Software Engineer

August 2011 - March 2013 (1 year 8 months)

Product Development for webMethods Product Suite

#### Huawei

##### Technical Team Lead

May 2010 - August 2011 (1 year 4 months)

Product Development for Cloud based solution Flexscale and Huawei NMS product U2000

#### Amazon Development Center, India

##### Application Engineer

February 2009 - May 2010 (1 year 4 months)

Amazon Development Centre India)

##### New Item Setup (NIS) Automation

NIS Automation involves automating the process of a new item set up at amazon.com. This automation involves as I/P an excel sheet from vendors/ buyers/retailers of Amazon and various business logic/rules implemented on an Excel sheet and finally uploaded to the website.

Developed a independent framework for the automation.

Back End : JExcel , Java POI , Core Java , Java Springs and Beans

RuleEngine : Java Rhino

Front End : JSP

#### Item Type Keyword(ITK) Selection

Item type keyword selection involves effective search of key words from history of item type keyword for a product description of any item/product. This project involves in writing effective search algorithms using Java Lucene search index. An index of all the history of Item keywords are created and search is done from the index.

Back End : Java Lucene.

Front End : JSP

#### New Item Setup (NIS) Timesheet creation and Report Generation

Created a Timesheet for NIS to track number of items created on a daily basis. Timesheet was created using Microsoft Sharepoint. All the business rules validation was done from Microsoft Sharepoint front end Java script validations.

Data from Microsoft sharepoint DB was migrated to MySql DB using Web Soap Service Call. Reports where generated with aggregated data from MySql DB using Jfree Chart

Front End : Microsoft Share Point

Back End : Core Java , JDBC, JFREE Chart

DB: MySql

#### Amdocs

##### Subject Matter Expert

June 2006 - May 2008 (2 years)

Pune Area, India

Product development and maintenance of Amdocs Ensemble Billing Solutions as Subject Matter Expert

Clients : AT &T, Sprint & Nextel

Roles and Responsibilities: Software Developer

Keywords : C, Unix, Oracle, Pro C, Shell Scripting

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## Education

Indian Institute of Management, Calcutta

EPIB, Internatinal Business · (2009 - 2010)

National Institute of Technology, Calicut (Kerala)

Degree/Examination; Bachelor of Technology, Computer Science Engineering;  
th Standard · (2002 - 2006)

Atomic Energy Central School

· (2000 - 2002)