

# Anit George

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## About Me

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Innovative and result-oriented Software Engineer with 8 years of experience facilitating cutting-edge engineering solutions in e-commerce and Mobile Phone Operating Systems. Extensive expertise in designing, developing and administering large scale distributed systems.

## Technical Skills

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Domains :	Distributed systems, Database design, Backend Services Natural language processing, Handwriting recognition, Geolocation, RTOS, Word prediction
Databases/Datastores:	AWS S3, AWS DynamoDB and Amazon Proprietary ION based NoSQL Database, AWS Neptune
Mobile Platforms:	Android and Tizen mobile phones, tablets and wearables, and Samsung GSM
ML Libraries:	Amazon Proprietary Sentiment Analysis Libraries and WordToVec Libraries
AWS Services	EC2, ElasticSearch, ElastiCache, DynamoDB, S3, Neptune, CloudFormation, VPC, Lambda, CodePipeline, API Gateway CloudWatch, SNS and SQS, DJS
Programming Languages:	C, C++, Java, Perl, JSP

## Work Experience

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**Lead Software Engineer, Nike (Bangalore)** November 2020 -

- **Nike Inventory Management**

As the tech lead of the project, designed, prototyped and developed a platform which gives the consumers insight into on-order and in-transit inventory Nike holds to make precise promises to the customers on their digital deliveries. This platform is expected to be the source of truth for all the on-hand and in-transit inventory Nike holds at any point of time.

*Key Highlights:*

- REST Microservices (4 services) hosted on AWS fargate (ECS)
- APIs hosted on Nike Proprietary API hosting framework and AWS AppMesh
- AWS DynamoDB for hosting our NoSQL databases
- AWS SQS to enable Asynchronous event transfer between services
- AWS S3 to store all the events to enable Event Sourcing facility
- Programming Language : JAVA
- Team Size : 9 Engineers

- **Nike Order data Management**

As the tech lead of the project, designed and developed a microservice to handle the life cycle of one of the many order types Nike supports. The order details are fetched and the attributes are validated/augmented from multiple data sources. Created multiple micro-libraries to make the validation and augmentation reusable for multiple services.

*Key Highlights:*

- REST Service hosted on AWS ECS(AWS Fargate)
- Micro-libraries created on Jenkins libraries pattern
- Order details fetched from multiple sources of truths and verified
- Programming Language Java
- Team size: 5 Engineers

**Software Development Engineer II, Amazon (Bangalore | Seattle)** June 2016 - July 2019

- **Amazon Checklist**

Prototyped, designed, developed and maintained a Business-to-Business web-page on amazon.com with 1000+ unique pre-curated shopping-lists, 15 Million+ users and 80K+ weekly average page-hits. The full stack project was powered by the best of AWS solutions. Also, handled the technical lead role for this project, guiding 5 member team to achieve their deliverables and coordinated with the stakeholders at every phase of the project life-cycle

*Key Highlights:*

- REST Services and Serverless Lambdas powered backend hosted on Guice based framework
- MVC stack on Java based Amazon Proprietary framework to support UI and customer interactions
- Content Management System to curate the contents hosted on MVC framework
- AWS Elasticsearch to support indexing and querying documents for the Content Management system
- Databases on DynamoDB and Amazon proprietary ION based DB
- Datastores hosted on AWS S3
- Programming Language: Java, Perl, JSP and JS

- **Sentiment Analysis on Customer Reviews**

Implemented a web service to fetch product reviews from Amazon's Review datastores, extract sentiments from the Natural Language Texts using Amazon proprietary Natural language processing libraries and rank products based on customer sentiments. Being an experimental project, I was the sole resource working on this project

*Key Highlights:*

- REST service to fetch and filter customer reviews for a given product from Amazon Review Data warehouses
- AWS DJS jobs to Recognize and classify customer sentiments against product attributes using customized Amazon Proprietary Natural language processing libraries
- REST service to group, classify and store the products based on customer sentiments.
- Programming Language: Java, PERL

## **Lead Engineer, Samsung Research Institute (Noida, India) June 2011 - June 2016**

- **Handwriting Recognition Engine**

Designed, implemented and integrated a Time Series based Real-time Intelligent Character Recognition(ICR) engine for handwriting recognition on Android Platform which supports character recognition,word prediction, word correction and next word prediction. Programming Language: Java

- **Android Clocks**

Worked on Samsung's Android Clock application which supportedClock, Timer, Stopwatch etc as a single apk bundle.Worked on theDaylight-saving time computation logic and Right to Left rendering for RTL languages. Programming Language: Java

- **Geolocation Finder**

Designed and Prototyped a location tracking Application for Tizen OS using Samsung Proprietary Cell Tower Triangulation libraries. Programming Language: C++

- **T9 based Predictive Text**

Implemented Text prediction engine for Samsung ultra-low-cost mobile phones using a multi-step encoding, compression and decoding scheme on a trie-based architecture. The system also supports In-place decompression of data to avoid loading of large chunks of data. Programming Language: C  
Programming Language: C

## **Internship**

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**IIT Bombay:** April 2010 - June 2010

Implemented a Media integration tool for e-learning resources on JavaFX Platform under Prof. Deepak B Phatak, Department of Computer Science & Engineering.

## **Education**

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**College :** Maulana Azad National Institute of Technology, Bhopal [2007-2011]

**Degree :** Bachelor of Technology

**Course :** Computer Science and Engineering

**CGPA :** 8.4/10