

# ANKUSH GULATI

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## SUMMARY

A seasoned **backend software engineer** with over **10 years of experience** developing cloud software solutions, with expertise in Distributed Scalable Systems & Content Management Systems.

## SKILLS

Expertise: JAVA, GO, REST APIs, FUSE, Agile, JUnit  
Familiar With: Python, Redis, Docker, AWS, Javascript, Spinnaker, SQL, Query Optimization, Mockito  
Tools & IDEs: Eclipse, IntelliJ, GIT, Perforce, Jenkins, Oracle, Cassandra

## WORK EXPERIENCE

- 1. Netflix, Los Gatos, CA** **Senior Software Engineer** **2019 - Now**  
Personalization Systems **JAVA**
  - Improving **recommendations** that allows each subscriber to have a **personalized** view of content adapted to their taste and help expand their interests over time through offline experiments & online **A/B testing**.
  - Developing & evolving the systems to run complex algorithms and provide fresh recommendations in **near real time**.
- 2. Salesforce, San Francisco, CA** **Lead Software Engineer** **2012 - 2019**  
Einstein Analytics - Platform & Scale Team **GO, JAVA**
  - Re-architected the platform** to support rapid growth in adoption and solve cluster management & horizontal scaling problems for the analytics product with zero downtime.
  - Single handedly designed and built **Encryption at rest** using FUSE into the already GA & architecturally complex Analytics product with negligible perceived performance.  
File Sync, Content Management System - Content Platform Team **JAVA**
  - Built the Cloud Sync product** ground up around the existing web based content management systems.
  - Led the successful migration of over a 20 billion file previews live in production to a new architecture with zero downtime.
  - Designed and developed **REST & SOAP APIs** to expose internal and external CMSES as a part of the Salesforce ecosystem.  
Developer Productivity (Side Projects) **Python**
  - Regular contributor to Developer Productivity projects, built a system to provide **build health status** to a developer by crowd sourcing & analyzing the recent activity from developers in my personal project time at Salesforce.
- 3. Nomura America LLC, NY** **Technology Analyst (Summer Intern)** **2011**  
Equity IT Connectivity Team **JAVA**  
Implemented a regression evaluation system in **JAVA** using **FIX Protocol** & FIX Messaging to verify the validity and success of recorded trades by simulating both inbound (client FIX protocol messages) & outbound (OMS messages) into the target application.
- 4. Infosys Technologies Limited, India** **Software Engineer** **2008 - 2010**  
Designed and implemented **automation frameworks** to assist efficient test automation. **JAVA**

## PATENTS & PUBLICATIONS

- Filed a patent for Encryption Innovation at Salesforce**, Gulati A. et al, 2017. "Intercepting calls for Encryption Handling in Persistent Access Multi-Key systems", Patent Pending.
- Authored a research paper on Intelligent Information Systems**, "A Hybrid Model for a Search Engine" published as a part of the proceedings at The 2008 International Conference on Artificial Intelligence, Las Vegas, CA. [IC-AI 2008: 199-203]

## EDUCATION

- |  |                                 |                    |
|--|---------------------------------|--------------------|
| <b>State University of New York at Stony Brook, NY</b>   | <b>M.S. Computer Science</b>    | <b>2010 - 2012</b> |
| <i>Natural Language Processing, Algorithms, Database Systems, Computer Security, Operating Systems</i> |                                 |                    |
| <b>Jaypee University of Information &amp; Technology, India</b>  | <b>B.Tech, Computer Science</b> | <b>2004 - 2008</b> |
| <i>Object Oriented Programming, Database Management Systems, Data Structures</i>                       |                                 |                    |

## CERTIFICATE PROGRAMS

- |  |  |                   |
|--|--|-------------------|
| <b>Haas School of Business, University of California, Berkeley</b>   | <b>Leadership &amp; Product Management</b> | <b>2016, 2018</b> |
| <i>Design Thinking, Customer-focused design, Strategic Leadership &amp; Communication</i>                                  |  |                   |
| <b>University of Waikato, New Zealand</b>  | <b>Data Mining with Weka</b>               | <b>2015</b>       |
| <i>Machine learning algorithms, Representing learned models, Filtering data Classification methods, Data Visualization</i> |  |                   |

## ACADEMIC PROJECTS

- Event Detection System for online content **JAVA**  
A system that captures semantic change of a topic over time & geo using **Enhanced Temporal Random Indexing** techniques.
- Automatic Development of a Visual Attribute Vocabulary **JAVA, Python**  
**Automated image harvesting** for objects & scenes specified by text descriptions from the web & user responses using AWS MTurk.