Akshay Vivek Verma

Pune, India akshayvivekverma@gmail.com https://avverma.com https://linkedin.com/in/akshayvv/ +91-8600104760

Software Engineer-III, Avaya 11 Years of Software Engineering Experience Serverless Microservices, Webapps & Telephony

EXPERIENCE

Avaya, Pune — Software Engineer-II, III (Project: Common Business Service)

JULY 2019 - PRESENT(4 Years)

- Part of Avaya's customer order provisioning team for cloud offers, from order fulfillment to customer's usage measurement.
- I have led a team of 4 developers through phases of requirement gathering to design and implementation of features and enhancements.
- Experience with development of *scalable, multi-tenant* serverless solutions using AWS services such as Lambda, SQS, IAM, Cognito, DynamoDB, API Gateway, S3, Athena.
- Well versed with **microservices** patterns such as **orchestration** and **choreography** to accomplish business tasks using **Java(SE)** and **Python 3**.
- Involved in maintenance of CI pipelines and build tools using **git**, **Atlassian-Bamboo**, **maven**, **serverless framework**. Experience with **AWS Cloudformation** to spin up infrastructure stack.
- Built an SDK in Java for consumers of our service. The sdk provided easy to use interfaces and abstracted away lower level details such as Authentication(IAM), HTTP retries, Serialization and Background Polling.
- Insist on designing systems that use well defined **service boundaries**, **interfaces** and GOF **design patterns** such as **Builder**, **Observer**, **Decorator**, **Strategy** etc. Test frameworks such as **Junits** for unit tests and end-to-end automated tests.
- I have expertise in developing services that both expose **RESTful** APIs or listen for custom events. Furthermore, I have implemented services that consume REST APIs, adhering to standard naming conventions and utilizing the **OAUTH 2.0** authentication scheme.
- **4 Years of experience in working on a Spring Boot** Web application that exposed functionality such as user management, product catalog, usage collection from data sources such as MySQL, Ldap server, HTTP Server with **Postgres** as the underlying database.
- 2 Years of experience with AngularJs for building web UI for product catalog and data collection. I have good knowledge of HTML, Javascript and CSS.
- 6 Months of experience with working on Data warehouse using Microsoft SSIS for ETL and SSAS.
- Bootstrapped tiny web-app tools using Flask & React for Cloud Operations team, replaced direct API invocation by providing an easy to use UI.
- Strive on automating tasks by writing scripts in **Python**. Such as synchronizing s3 buckets between AWS accounts, reverting dev accounts to a clean slate and migrations of databases.

Avaya, Pune — Software Engineer-II (Project: Java Kafka Client)

DEC 2018 - JUNE 2019 (1 Year)

- Built an application to interact with **Kafka** broker using **Java(SE)**. It is responsible for synchronizing realtime configuration settings of Avaya's PBX Communication Manager.
- The app exposed a TCP server to listen for configuration events using a custom protocol, built using Java Non-blocking sockets.
- To enable concurrent listening for configuration events and consumption and production to Kafka, the application was designed to be **multi-threaded**. The implementation incorporates multi-threading constructs, such as **blocking queues** and **countdown latches**, for synchronization.
- The application was **containerized** using **docker** and deployed to a **docker swarm**. I have experience with packaging RPM, creating container images, running and monitoring of docker containers.

• Well versed with Kafka constructs such as **Topics**, **Consumer**, **Consumer Groups**, **Consumer Offsets**, **Producer**, **Rebalance** etc.

Avaya, Pune — Software Engineer-II (Project: Quicksilver-Endpoints)

AUG 2017 - DEC 2018 (1 Year)

- I worked on the development of Avaya's J129 series desk phones using C++. My role involved ensuring compliance with the SIP (Session Initiation Protocol) RFC 3261 standard to enable interoperability with Broadsoft's PBX.
- My work involved implementing various features, including talkpath detection by interfacing with the media engine for **RTP** packet detection and running a local **DNS server** to simulate DNS bugs.
- I also worked on the SIP and SDP (Session Description Protocol) signaling for Hold, Transfer, and Conference scenarios in the project.
- I have a good understanding of Layer3,4 and 7 protocols such as IP, TCP, UDP, TLS, DNS, HTTP, SIP, SDP, RTP and well acquainted to network monitoring tools such as wireshark/tshark, sipp, nmap, nslookup, netcat.

Avaya, Pune — Software Engineer-I (Project: Communication Manager)

MAY 2015 - AUG 2017 (2 Years)

- Developed call control features using C/C++ on Avaya's core telephony switch.
- Expertise in the area of **SIP** protocol development for addition/updation of headers and **SDP** negotiation.
- Integrated Feature Access Codes(FAC) on Extended cellular devices. Imagine you forward your office meeting onto your cellular device, using FAC(sequence of well defined digits such as ***01**) You can add your colleague to this conference.

Tata Consultancy Services, Chennai — Systems Engineer (Project: Alcatel Lucent OmniPCX Server)

SEP 2012 - APR 2015 (3 Years)

- Developed call control features using C++ on Alcatel Lucent's PBX for small and medium enterprise.
- Debugging and fixing CFD(Customer found defects..

EDUCATION

Sikkim Manipal Institute Of Technology, Sikkim — Computer Science & Engineering

JUNE 2008 - MAY 2012

Vikas Vidyaniketan, Visakhapatnam — XI- XII

JUNE 2006 - Apr 2008

Kendriya Vidyalaya, Assam — I-X

JUNE 1996 - Apr 2006

AWARDS

- RSU Grants in Avaya for 2 consecutive years and Club Stellar award.
- TCS gems for exemplary performance.