Amit Srivastava

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Skills

Languages: Python, C, C++, C#, Go, Java | Database: Oracle 11g, Sybase, MySQL, Redis | Networking: TCP/IP, UDP, QUIC, SDN, HTTP | Others: AWS Lambda, Kinesis, RedShift, CloudFormation, Agile, Scrum

Experience

Associate Software Engineer, Amadeus NA   Waltham, MA   November 2017 – April 2020
- Developed RESTful microservices with Python, C and SQL for the SaaS platform deployed on OpenShift
- Tested scalability of services using JMeter and created production alerts with Prometheus
- Performed scalability upgrades on queues to handle traffic spikes

Systems Software Engineer, TVision   Boston, MA   April-September 2017
- Built a data pipeline to gather data from homes, classify and store it in cloud at an AdTech startup
- Developed a C# app for home-based devices to send viewership and telemetry data
- Used AWS: Kinesis for aggregation, Lambda for classification and Redshift for storage
- CI/CD implemented with BitBucket and AppVeyor for Windows, Installation via NullSoft

Software Engineer Intern, Senscio Systems   Boxborough, MA   May-August 2015
- Developed a data entry portal from scratch at a startup with HTML, JavaScript, Perl and MySQL
- Normalized the database and added encryption to hide patient information for HIPPA compliance

Associate, Cognizant Technology Solutions   Chennai, India   July 2011 – July 2014
- Developed SOAP web services in C, C++, SQL and Active MQ for E-trade's SOA platform
- Built internal tools with Python, Perl and HTML for batch jobs and tracking errors in production
- Fixed a major bug in the apple push notification service related to TCP and SSL certificates

Systems Engineer, Tata Consultancy Services   Gurugram, India   October 2008– June 2011
- Automated feature testing and validation of Deep Packet Inspection (DPI) engine on Cisco routers
- Developed TCL regression scripts for all application traffic identifiable by DPI engine
- Created testbed configurations such as adding routing, subnetting and traffic generators
- Developed report migration dashboard for ticketing tool project with Java, JSP, MySQL

Education

- Master of Science, Computer Science, GPA 3.3, 2014-2017
  Worcester Polytechnic Institute (WPI), Worcester, MA
- Bachelor of Engineering, Computer Science, GPA 3.5, 2004-2008
  Rajiv Gandhi Technological University (RGTU), Bhopal, India

Academic Work and Projects

Master's Thesis, Worcester Polytechnic Institute   Jan 2016 – May 2017
Compared Google's QUIC protocol's response to network congestion with TCP
- Used tools such as netem, tcpdump to setup an experimental topology, capture traffic
- Used Python (Paramiko), C to create clients, servers and automate tests and Redis to store results