

Sahil Gupta

Arlington, Virginia 22203 | 323-363-0631

www.sahilgupta.info | info@sahilgupta.info

EDUCATION & SKILLS

Georgia Institute of Technology - Atlanta, GA

August 2010 – May 2014

❖ Bachelor of Science in Computer Engineering (High Honor). GPA: 3.4/4.0; Major GPA: 3.5/4.0

❖ Teaching Assistant - Math1501, School of Mathematics

August 2011 – December 2013

Certifications: AWS Professional and Associate Solutions Architect, Coursera UPenn Entrepreneurship

Programming: Java, C, SQL, Linux Bash Scripting, R

Cloud: Developing applications in Amazon Web Services, Docker

Web & Mobile: Android, JSON, HTML, CSS

Networking & Security: VPN, SSO, SAML, LDAP

BPM: Appian BPM Suite, SAIL Interface Programming Language

Software & Platforms GIT, SVN, Linux, Windows, Mac OS X, Eclipse, NetBeans, Microsoft Office Suite

App Architecture: Web Server (Apache, IIS) and Application Server Integration

Languages: English (native), Hindi (native)

Awards and Honors: Appian MVP 2017 for excellent work at Appian, Appian Spirit Award & Hardest Working (given to top performers in the team), Georgia Tech Faculty Honors

WORK EXPERIENCE

Appian Corporation - Reston, VA

July 2014 – Present

Lead Cloud Engineer (April 2018 – Present), Senior Cloud Engineer (August 2016 – March 2018), Cloud Engineer (July 2015 – July 2016), Associate Cloud Engineer (July 2014 – June 2015), Appian Cloud Team

- ❖ **Auto-scaling:** Build a reactive auto-scaling algorithm which scales the elastic web layer. Also, built a predictive linear regression model using scikit Machine Learning libraries and Python to predict future traffic. This helps in mitigating SLA violations, saves around 50k USD per annum, etc.
- ❖ **Elastic Web Server Layer:** Led the development to build images for Apache webserver, Java application and bash scripts to configure the webserver. Reduced the time to add a webserver from 4 hours to less than 10 minutes.
- ❖ **Elastic Load Balancers:** Developed Java application to automate addition and rollout of AWS ELB across web layer.
- ❖ **Metrics and Analytics Platform:** Developed analytics and centralized logging platform using Rsyslog, Fluentd, MySQL and AWS S3 for collection and storage of metrics from thousands of servers across the world. This platform streams around 165 million data points every day and is powering several data analytics and business intelligence applications across the company such cloud and product metrics, price quote application, sales and marketing reports, etc.
- ❖ **AWS CloudWatch Collector:** Developed a fault tolerant Java app to collect and store CloudWatch metrics.
- ❖ **Server Privileges Removal:** Led the project for removal of root and named user privileges for engineers on all servers. This involved adding bash scripts to AMI's and exposing them via Appian UI. This automated several tasks previously done manually by engineers and improved security by using least privilege principle.
- ❖ **On-premise To Cloud Migration Automation:** Led the migration efforts of several customers from on-premise to Appian Cloud platform. Developed several tools and scripts using Java, AWS, Bash, etc. to automate aspects to make this transition smooth and fast.
- ❖ **Baxter Integration:** Developed the product marketing's flagship IoT project in a team to showcase Appian's low code platform during Appian World i.e. Appian's integration with Baxter workforce robot.
- ❖ **Transition Agile Methodology:** Implemented agile methodology within the team by working with other departments and agile coaches to train engineers.
- ❖ Led development of the applications mentioned below. Used Appian BPM platform, proprietary SAIL interface development language and MySQL to build these:
 - **Monitoring:** Monitors the health of all Appian Cloud instances and helps in proactively resolving issues without the client ever knowing about the same. This required re-designing and implementing the front end of the application and the notification system.
 - **Appian Cloud Metrics:** Displays time series data of several health and performance metrics, product usage, and server information, etc. from all instances and builds reports in real time. This helps engineers track the

performance of all servers and has significantly reduced the time taken for engineers to diagnose issues. This also enables product management team to understand what features of product are being used and several other KPIs.

- **Tracking Cloud Availability:** Automatically tracks total uptime/SLA for all production Appian Cloud instances. This helped senior cloud management and product engineers to decide what features to prioritize in the product to increase the availability of Appian Cloud.
- **Customer Site Revert, Clone and Backload:** Automates the processes for reverting and cloning a site as well as back-loading the data from one site to another using backups. These help in resolving disaster recovery scenarios, internal testing, customer issues, etc.
- ❖ **Training and Documentation Lead:** Developed cloud training program, and managed and contributed significantly to cloud knowledge base including documents, presentations and videos. Trained newer members of the team including senior cloud engineers and technical support engineers.
- ❖ Administered configurations of Appian Cloud in AWS such as integrations, authentication, monitoring, networking and storage. Worked extensively with SSO SAML, Openswan VPN and LDAP. Performed root cause analysis and recommend solutions to challenging real world problems which clients face including issues with availability, scalability and performance of application.

Goldman Sachs - New York City, NY

May 2013 – August 2013

Technology Summer Analyst, Equity Derivatives Technology

- ❖ Developed an application in Slang using SUIT and Data Cube APIs to view, edit and search the containers specific to MarkitWire trade confirmation platform. Built a generic framework to view and edit any container in a tree-based structure.
- ❖ Understood the core technologies such as Slang, Sec DB, Sec View, Trade Model, etc. behind equities to improve my project's impact.

The Coca-Cola Company - Atlanta, GA

January 2013 – February 2013

Mobile Application Developer, Global Mobile Solutions Team

- ❖ Helped in development of Android mobile app for headquarters to overcome challenges faced by employees, guests and staff on campus.
- ❖ Helped in creation of proof of concept involving Capriza, which is a platform to create mobile apps using web scrapping.

Automatic Data Processing - Alpharetta, GA

June 2012 – August 2012

Web and Mobile Applications Developer, WorkForce Now Web Development Team

- ❖ Developed a prototype Android application for ADP Directory which enables business owners to view their employees and information associated with them.
- ❖ Helped in development of ADP's suite Work Force Now by developing web pages in JavaServer Pages, JavaServer Faces and Java Script.

PROJECTS

Wireless Radio Frequency Scanner for Signal Measurement, Senior Design Project

August 2013 - May 2014

- ❖ Worked with a startup, DasPoint, to develop a mobile scanner that tests the strength of a mobile network by scanning signals.
- ❖ Developed the hardware architecture design and Android mobile application, which enabled Radio Frequency engineers to work remotely.

GTFoodLine: Digitizing On Campus Dining, Enterprise Computing Project

January 2014 - May 2014

- ❖ Created an Android app in Java and PHP hosted on LAMP stack server to reduce the long wait times at dining locations across campus.

ACTIVITIES

Technical Interview Preparation (TIP) Organization, Georgia Tech

January 2013 – Present

Co-Founder, President and Student Advisor

- ❖ Conceived and developed the idea behind TIP based on the needs of students to enable them to be well prepared for technical interviews.
- ❖ Helped in chartering process, establishing the foundation of the organization, and recruiting the executive board and members.

Eta Kappa Nu (HKN) – ECE Honors Society, Beta Mu Chapter, Georgia Tech, Member

January 2013 – Present