

# DEEP KUMAR

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in /dsahu040

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dsahu040.github.io

## Education

### George Mason University

Master of Science in Computer Science (GPA: 3.72)

Aug 2019 – May 2021

Fairfax, VA

### Rajiv Gandhi Technical University

Bachelor of Science in Electronics and Instrumentation Engineering (GPA: 3.40)

Aug 2010 – May 2014

Bhopal, India

## Experience

### George Mason University

Graduate Teaching Assistant

Jan 2020 - Present

Fairfax, VA

- > Instructor for CS211 (**Object-oriented** programming - Spring 2020), CS321 (Software Engineering - Fall 2020).
- > Responsible for conducting labs, and office hours to help the students with their projects and questions; evaluating assignments and keeping mandatory records.

### Amazon Web Services

Software Development Engineer Intern

May 2020 – Aug 2020

Seattle, WA

- > Learned and implemented concepts and extensions of **OAuth 2.0**, **Spring security**, and Federated login.
- > Designed and developed **Java 8**-based Lambda APIs to authorize users and authenticate third-party applications.
- > Built **RESTful** web services using **Spring Boot** for user authentication, and federated login.

### Allianz Technology

Senior Software Engineer

Jan 2018 – Jul 2019

Pune, India

- > **Managed a team of 3 developers** to delegate the work; providing input for application design and development.
- > Involved in the analysis, design, and development of **SOAP Web-services** using **Java** and **Spring**; wrote **Junit** and **Citrus framework**-based service integration tests.
- > Designed and developed **Apache Camel middleware** and enforced security using **Spring Security** and **TLS encryption** to provide automotive insurance solutions.
- > Successfully coordinated and migrated legacy Java ESB applications to Apache Camel-based applications, which **reduced manual workaround by 20%** for insurance clerks.
- > Implemented a complete **CI/CD pipeline with Jenkins, Git, Docker, and Kubernetes** to deploy and maintain web applications.

### Tata Consultancy Services (TCS)

System Engineer

Dec 2014 – Jan 2018

Pune, India

- > **Designed and developed** various applications (Flight booking portal, Cabin Crew Management, and Lost & Found Baggage Portal) for UK-based airline customer.
- > Involved in requirement analysis, design, and development of **RESTful Web Services** using Java and Spring framework; wrote Junit and **Spring-based Service Integrations** tests; performed automated testing using **SOAP UI** automation and **Cucumber**; used **Apache JMeter** for performance testing.
- > Successfully led the effort to **improve the performance** of the Flight booking portal **by 40%** using **Java design patterns**, Service-oriented Architecture, code reusability, and server-cache.
- > Wrote **SQL** query, stored procedures, and Materialized view for database operations. Used **Spring DAO pattern** to access the database and **AngularJS** for the development of a single-page web application.

## Skills

**Languages** Java, Python, C, SQL, HTML5, CSS, Javascript

**Frameworks** Spring Boot, Spring MVC, OSGI Framework, Hibernate, Apache CXF, React

**Web Technologies** REST & SOAP Web-services, Apache Camel Middleware

**Application Server** JBoss, Apache Tomcat, WebLogic

**Tools** Docker, Kubernetes; Bitbucket, Git, Kibana, Elastic Search, SonarQube

**Test & Automation** Soap UI, Cucumber, Junit, Service Integration Test, Apache JMeter

**Cloud Technologies** AWS (EC2, S3, Lambda, Cognito)