DEEP KUMAR

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EDUCATION

- **George Mason University** — Fairfax, VA
  Master of Science in Computer Science (GPA: 3.72) — Aug 2019 – May 2021

- **Rajiv Gandhi Technical University** — Bhopal, India
  Bachelor of Science in Electronics & Instrumentation Engineering (GPA: 3.40) — Aug 2010 – May 2014

EXPERIENCE (5 years in software development)

George Mason University — Fairfax, VA
Graduate Teaching Assistant — Jan 2020 - Present

- 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 — Seattle, WA
Software Development Engineer Intern — May 2020 – Aug 2020

- 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 — Pune, India
Senior Software Engineer — Jan 2018 – Jul 2019

- **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) — Pune, India
System Engineer — Dec 2014 – Jan 2018

- **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.

PROGRAMMING SKILLS

- **Languages:** Java, Python, C, SQL.
- **Frameworks:** Spring Framework, Spring Boot, OSGI Framework, Hibernate, Apache CXF.
- **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).