

Karan Mitra

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EDUCATION

Sacramento State University

Master of Science in Computer Science

GPA: 3.95 / 4

Sacramento, California

August 2016 – August 2018 (Expected)

University of Pune, KJ College of Engineering

Bachelor of Engineering in Computer Engineering

GPA: 3.4 / 4

Pune, India

August 2010 - May 2014

RELEVANT COURSES -

Design and Analysis of Algorithms, Distributed Systems, Advanced Operating Systems, Human Computer Interaction Design (HCID), Database System Design (NoSql DBs)

WORK EXPERIENCE

VSP Global

Web Application Developer Intern

Sacramento, California

(January 2018 – Present)

- Developer Role at an Agile based project to transform existing web application suite to REST service platform.
- REST Service Development in Java and Behavioral Testing of APIs using JBehave.
- Agile project experience using JIRA, Git, Confluence. Handling sprint planning, grooming and reviewing tasks.

CSUS, US Environmental Protection Agency

Research Assistant

Sacramento, California

(October 2017 – Present)

- Developing an integration system using Spring Boot in Java to collect power plant information from EPA data sources and displaying through an interactive web application for analysis in HTML5, Angular4 and CSS.
- Building a RESTful API middleware to fetch data from various EPA source using Spring Boot, parsing XML / JSON data to store into SQL Server. Further processing and ETL into database and migration onto client server.
- Planning and development of a web application using Angular4 to interface with these REST APIs for extracting data and running analytics visualizations on processed data.

Persistent Systems Ltd.

Software Engineer

Pune, India

(November 2014 - July 2016)

- Web Application and Android application developer for a scrum based project. Built and deployed an application suite for Louisiana Public Health Inc. through an Apache Cordova based hybrid application Javascript APIs.
- Extensive experience in Java and Spring MVC architecture for enterprise level web application development.
- Built single page web application using HTML5, CSS3, Angular JS, Core JS and JQuery using responsive page design mechanisms like bootstrap and media queries.
- Built high performance REST APIs capable of accepting hundreds of requests per second. Middleware development involving aspect oriented concepts, JAX-RS, Maven, myBatis using Spring.

TECHNICAL SKILLS

Core and Advanced Java, Android, Java Script, JQuery, HTML5, Angular JS, Python, MySQL, C, C++ , Apache Cassandra

ACADEMIC PROJECTS / ACTIVITIES

- **Suburban Metro Android Railway Ticketing :** (May 2014)
Senior Project sponsored By Persistent Systems Pvt. Ltd. Online virtual ticketing system including an Android application and a live HTML5 Web Application. Engineered an in-house routing algorithm in PHP which takes the routes and schedule data and generates a dynamic route to minimize cost, number of switches etc.
- **Kernel Monitoring and Control Manager:** (August 2017)
Graduate project involving Python based GUI application to provide kernel level access and control mechanisms to processes and network exchanges using loadable kernel modules.

AWARDS AND EXTRA CURRICULAR

- Awarded **Best Outgoing Student (May 2014)** among all majors in college for outstanding achievement in all fields.
- Youngest receiver of the **Star Performer Award (August 2015)** for excellent work in mobility at Persistent Systems. Particularly for the hybrid application integration with the web application.