

Karan Mitra

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EDUCATION

Sacramento State University

Master of Science in Computer Science

GPA: 3.93 / 4

Sacramento, California

August 2016 – August 2018 (Expected)

University of Pune, KJ College of Engineering

Bachelor of Engineering in Computer Engineering

GPA: 3.3 / 4

Pune, India

August 2010 - May 2014

EXPERIENCE

Persistent Systems Ltd.

Software Engineer

Pune, India

November 2014 - July 2016

- Worked as a full stack developer and created a live hybrid Android and Web application using and a mobile application suite for Louisiana Public Health Institute to collect patient data and survey responses stored on a cloud server.
- Built middle ware services using REST in Java whilst ensuring compatibility with the overall application. Integrated aspect oriented architecture, JAX-RS, Maven, myBatis using Spring.
- Spearheaded the coding activities as Java lead and built a sustainable framework towards future development and enhancements to the application suite. Extensive Java EE work in a mainframe application.
- Compiled documentation of entire suite including architecture and design documents and updated on a timely basis to ensure efficient knowledge transfer.

Persistent Systems Ltd.

Web Developer, Mobility Team

Pune, India

March 2015 - July 2016

- Built a hybrid Android application embedded with Apache Cordova webview to run distributed web application. Application development in AngularJS, JQuery , CSS3, HTML5.
- Efficiently delegated tasks amongst team members and subordinates to ensure timely completion of activities.
- Served as first point of contact for an open channel of communication for the client to efficiently communicate progress of updates and plans for future tasks.
- Youngest receiver of the Star Performer Award amongst a large team for efforts of building a stable application suite.

ACADEMIC PROJECTS / ACTIVITIES

Research Member (Jan 2017- August 2017)

Member of Research group under Prof. Dr. Ghassan Shobhaki, testing new algorithms to increase performance of output code of the LLVM compiler with advancements in instruction scheduling. Extensive work in C++ code and related enhancements. Working in developing heuristics and algorithm enhancements for the compiler optimization. Using Spec Benchmarks to devise the new algorithms and provide proofs of performance improvements.

Student Assistant – Grader – Operating System Principles (2017 - Present)

Suburban Metro Android Railway Ticketing

Senior Project sponsored By Persistent Systems Pvt. Ltd. Online virtual ticketing system including an Android application and a live HTML5 Web Application. Built to render dynamic routes and schedules to generate QR coded tickets. Built a in-house routing algorithm in PHP for route optimization and selection. Two published papers – Survey on Routing Algorithms and Metro Railway Routing Implementation. (<http://metropune.atwebpages.com/>)

Relevant Courses - Design of Algorithms, DB Design (NO Sql Dbs), Advanced Operating Systems,

SKILLS, ACTIVITIES & INTERESTS

Awards: Best Outgoing Student, Star Performer, Best Team Award (Team Member)

Languages: Fluent in English and Hindi

Technical Skills: Core Java, Advanced Java C, C++ , Android, Java Script, SQL and PHP, Python. Mysql and Cassandra. Comfortable with Windows and Linux OS. Worked extensively on Java and Javascript. C programming and Java developer certified.

Source Control Tools: SVN, Github. **IDE:** Eclipse