



# Aditya Lochan Sharma

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## PROFESSIONAL SUMMARY | [adityalochansharma.com](https://adityalochansharma.com)

- Experience in Software Analysis, Design, Documentation, Implementation, Testing using **Java/J2EE** technologies.
- Experience in implementing **Collections, Data Structure** and **Algorithms**.
- Experience in **relational** database design, indexing and writing complex **SQL** queries, **Stored Procedures**.
- Experience in **Functional Testing**, writing **Junit** test cases, using **Selenium** and use of version control tool **SourceTree, GIT, SVN**.
- Involved in **CI/CD** development and use of **Agile/SCRUM** development methodologies.

## TECHNICAL SKILLS

Framework	: Spring, Spring Boot, React, BackboneJS, Selenium
Languages	: JAVA/J2EE, PL/SQL, JavaScript, Python, XML, JSON, C++
Database	: Oracle 12c, Oracle APEX, SQLite
Web Technologies	: CSS, Bootstrap, REST API, XHTML, Apache Tomcat, AWS, S3, Dynamo DB, AWS Lambda
Tools	: IBM Websphere, Jira, Jules, Jenkins, CI/CD, Maven, SourceTree, GIT, TortoiseSVN, AWS, SQL Developer, Eclipse/IntelliJ, SonarQube, Sonar Lint, IBM MQ, Fitnesse/Cucumber, Sublime, ESRI, VS Code, Android Studio, GIS, Tableau, SPSS, Stata, R Studio, Vmware, Atom

## EXPERIENCE

### **Penske, St. Petersburg (Associate Software Engineer 3) | DLScanner, ACL(Anti-corruption-layer)** Jun 2023 - Present

- Part of tech-refresh initiative, developed microservice module layer(ACL) that maps the objects between two systems providing seamless traffic flow.
  - ACL involved creating rest endpoints, services for mapping/processing of message using multithread asynchronous calls for outbound flow and stacking/processing inbound flow as response for UI. (microservice architecture)
  - Worked on DLScanner project involving full-stack development of new features for seamless driver license scanning at site location and tabbing user behavior based on selection preference for data analysis. (monolithic architecture)
- Technology: Java, Javascript, JSP, Springboot, Multithreading, AWS.**

### **JP Morgan Chase & Co., St. Petersburg (Associate Software Engineer 2) | Chargeback-Post Deposit Application** Sep 2020 - Mar 2023

- Directed a team of 4+ interns. Acted as scrum master and provided technical guidance. All interns joined as full-time employees.
  - Added new features, functionality in backend using Java, Spring, Springboot, Junit for test coverage.
  - Developed debit UI screen on Javascript, connecting UI to backend using REST API calls and using Java, Elasticsearch technologies.
  - Resolved production incidents during critical hours and performed necessary data patching.
- Technology: Java, Springboot, React, Javascript, Bash/Shell Scripting, SQL, Control-M, Junit5, Websphere, AWS, S3, EC2**

### **JP Morgan Chase & Co., Tampa (Associate Software Engineer) | PSFX-Payment Service Foreign Exchange** Aug 2018 - Sep 2020

- Added new application features, increased code efficiency/stability.
  - Worked on automation framework Selenium and Cucumber to automate test cases.
  - Increased application test coverage using Junit to meet application compliance standards, making application bug free.
  - Increased code efficiency & stability, resolved sonar bug fixes and validated application using SSAP scans.
  - Supported releases and performed data patches.
- Technology: Java, SQL, Linux, SpringBoot, Microservices, IBM MQ, Selenium, Cucumber**

### **Center for Urban Transportation and Research, USF (Graduate Research Assistant)** May 2017 - May 2018

- Contributed to research “Robust Automated Pedestrian Detection System” and “Automated Campus Shuttle Pilot Study”.
  - Contributed to research on “Probability of Pedestrian Crashes and Socio-economic factors” involving literature review, data collection, model specification and regression analysis, making pedestrian travel safer. <http://bit.ly/2JQbxRn>
  - Involved in data gathering, cleaning, disseminating, and analyzing using geospatial tools.
  - Statistical and predictive analytics of data using SPSS, producing written papers and reports.
  - Participated in field work and conducted literature reviews.
- Technology: SQL, GIS, SPSS, Stata, Excel, SPSS, MS Word | Recommendations: <http://bit.ly/2t50zxQ> , <http://bit.ly/2K4jmDr>**

### **Bureau of Indian Standards, India (Intern)** Feb 2016 - Jul 2016

- Programmed “Feedback Analysis” software using Hadoop Framework.
  - Analyzed feedback using Map Reduce and filtered tweets for data analytics.
- Technology: Hadoop, Java, Flume, MapReduce**

### **Power Finance Corporation LTD, India (Intern)** Jun 2015 – Jul 2015

- Developed “Contract Monitoring System” that stores memos related to contracts.
  - Application stored different models for procuring services, tasks, and associated activities including details about contract and contractor.
- Technology: ASP.NET, ADO.NET, C#, MS Access**

**Yamaha Motors India Pvt. Ltd, India (Intern)***Jul 2014 - Aug 2014*

- Collaborated in design and hosting of a social static website for Yamaha stakeholders.
- Technology** AWS – EC2 and S3, Git

**Microsoft Corporation, India (Intern/Ambassador for company's marketing campaign)***Jun 2014 - Jun 2015*

- Devised the organizational flow of market, handling prospective clients, inductions, stakeholder management, building relations for mutual growth for re-engagement of clients.
- Handled various marketing initiatives for promotion and organization of events like GoWiderDelhi campaign, GenZ.

**PROJECTS**

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**Pedestrian Crossing Android Application***Jan 2018 - May 2018*

- Developed an android application for automated pedestrian crossing.
- The application would help pedestrian's (USF student's) commute easier, preventing jay walking.
- Technology:** Android Studio, XML, Java, Google API. <https://bit.ly/442q17B>

**Social Media Messenger Application***Jan 2018 - May 2018*

- Created a social media RESTful web service application using JAX-RS, allowing users to send and receive messages.
- Technology:** Java, RESTful API, JAX-RS, Apache Tomcat <https://bit.ly/4d4hswV>

**Usability Testing (RentersBay)***Nov 2017 - Dec 2017*

- Performed usability testing of website "rentersbay.com" to improve human computer interaction. <https://bit.ly/3U3uzG7>

**USGeoRSS Earthquake Markers***Feb 2017 - April 2017*

- Built an Interactive app involving Geo-visualization in Java using Unfolding Maps library.
- Application analyze live earthquake GeoRSS feeds from USGS website using data structures and generics.
- Technology:** Java/J2EE, Spring <http://bit.ly/2t7RkwV>

**Software Testing (Tango Application)***Feb 2017 - April 2017*

- Performed in depth analysis to identify defects and improve codebase to eliminated bugs.
- Developed manual test cases and automated testing scripts using Selenium.
- Technology:** Selenium <https://bit.ly/3JpgX33>

**Penetration testing on Windows 7 machine using Kali***Oct 2016 - Dec 2016*

- Modified vulnserver to remove buffer overflow vulnerability and penetration tested Windows 7 machine using Kali.
- Ports were scanned for vulnerabilities including openVas scan, targeting services using exploit-db scripts.
- System was exploited using by binary reverse meterpreter shell to escalate system privileges.
- Ssh keys, smb hashes, tokens were collected followed by decryption of NTLM, MD5 hashes using kali tools to escalate privileges.
- Technology:** Kali Linux, Shell Scripting, Metasploit

**Online Hospital Reservation System***Oct 2016 - Dec 2016*

- Created an Online Hospital Reservation System using Oracle Sql 12c.
- Employed ERD through Oracle Normalization.
- Performed Indexing & Range Partition for performance tuning.
- Demonstrated usage of Transaction Processing.
- Technology:** Oracle Sql developer 12c, SQL <http://bit.ly/2HMBCfi>

**CERTIFICATIONS**

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Udacity NanoDegree: FrontEnd Web Development

*Jun 2024*

Google Developer NanoDegree: Android Development

*Jan 2019*

C++ and Data Structure

*Jun 2013***EDUCATION**

MS in Information Technology (3.67/4)

**University of South Florida, Tampa FL***May 2018*

B.Tech. in Computer Science Engineering (3.1/4)

**Ansal University, Gurgaon INDIA***Jul 2016***ACHIEVEMENTS**

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- Research project solicitation award (Application of Dynamic Prediction Methodology to FDPT&TSMO Programs)
- 3x **IRONMAN 70.3**, 1x **USAT National Championships, Podium** - Olympic Triathlon, **Ultra-Runner** (100K), **Century Rider** (Imperial System) & **Half-Marathon swimmer**
- Inducted into MarquisWhosWho honors list.
- Interviewed for USF media & 83degrees media sharing my journey as an international student. [bit.ly/3yddDFG](http://bit.ly/3yddDFG)
- Voted as Secretary for Brandon Toastmasters Club