

# Sanjay Ramachandran

Chicago, IL - 60607 | (+1) 773-372-8635 | [sanjay.ssnecs@gmail.com](mailto:sanjay.ssnecs@gmail.com)  
<https://linkedin.com/in/sanjayr93> | <https://github.com/sanjayr93>

---

## Education

### University of Illinois at Chicago (UIC)

GPA: 4/4

Master of Science candidate in Computer Science, Aug 2017 – May 2019 (Expected)

Course highlights: Computer Algorithms, Artificial Intelligence, Information Retrieval, Data Mining, Advanced Machine Learning

### SSN College of Engineering, Anna University, Chennai, Tamil Nadu, India

CGPA: 8.5/10

Bachelor of Engineering in Computer Science and Engineering, Aug 2011 – Apr 2015

Course highlights: Data Structures, Database Management Systems, Software Engineering, Mobile and Web development

---

## Technical Skills

**Programming Languages:** Java, Python, JavaScript, C++, HTML/CSS

**Frameworks/Technologies:** Android, REST API, Spring, Jersey, Mybatis, VueJS, Git, JUnit

**Databases:** Oracle, Cassandra, Redis, MongoDB

---

## Work Experience

### Expedia Group, Springfield, Missouri

May 2018 – August 2018

Software Development Intern

- Developed a debugger to view API call journey statistics so developers can identify discrepancies in their micro-services, if any, in minutes. Used **Java, Jersey framework, VueJS, AWS, JUnit** and **CI/CD tools**.
- Developed an easy-to-use, lightweight, extensible logging library for developers to use in their micro-services to log HTTP messages with JSON, XML or protobuf payloads and upload it to AWS S3

### Fidelity Investments, Chennai, India

August 2015 – June 2017

Associate Software Engineer

- Developed APIs and database packages to provide real-time data access using **Java, JSON, Spring, MyBatis** and **PL/SQL**
- Directly collaborated with the clients and addressed feature requests and platform issues
- Achieved more than **25% reduction** in response time by migrating a key capability from **Oracle + SOAP** to a **Cassandra + REST** based architecture
- Developed dashboards using **HTML/CSS, Bootstrap, JSON, AJAX, jQuery, AngularJS, SpringMVC** and **OracleDB** to monitor platform performance and generate usage reports
- Developed an automation framework with UI to reduce batch job development and deployment time from **8 days to a few minutes**. Received “**You’ve Earned It**” award for the same

### AhaPunch, Chennai, India

May 2015 – July 2015

Android Developer

- Developed and launched the first version of an Android application with features to create profiles, socialize, upload and share media contents to our platform and on other social platforms
  - Devised strategies to market our initial launch
- 

## Projects

### Interdisciplinary Product Development | Sponsored by BMW USA

- A product design project in collaboration with business and design teams to explore a futuristic transport ecosystem and develop products that can help BMW be future-proof

### Artificial Intelligence | Python

- Developed a 15-Puzzle solver that outputs the moves to reach the final solution using **BFS, IDS, AStar** search algorithms and compared their performances
- Implemented a python version of ID3 Decision tree learning algorithm with a classifier along with Chi-Squared pruning to avoid over fitting

#### **Online Report Generation and Summarization using Information Extraction | Python, PhantomJS**

- Multi-document Extraction from webpages using clustering and classification algorithms on data crawled by scripts and Multi-document Summarization using text processing algorithms and report generation using user defined templates
- Achieved **0.9 precision score** when compared to other open source tools

#### **Mobile ATM app | Android, PHP, MySql**

- Developed an Android app that helps avoid the use of ATM cards and sharing of credentials by generating hash codes to be used as proxy for a transaction as part of Object Oriented Design coursework