

# ANUP ATUL THAKKAR

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## EDUCATION

**University at Buffalo, The State University of New York**

**Expected Feb. 2023**

Master of Science in Computer Science and Engineering, **CGPA: 3.875/4**

**University of Mumbai**

**May. 2018**

Bachelor of Engineering in Computer Engineering, **GPA: 8.3/10**

## EXPERIENCE

**StackBOX Services Private Limited, Bangalore, India**

**Aug. 2020 - Jun. 2021**

**Software Development Engineer**

- Led development of multiple features in an agile environment resulting in 12% increase in product delivery for supply chain management start-up company
- Increased 45% delivery process efficiency by constructing Typescript backend service on Fastify framework for an internal application to track logistics and deliveries of goods
- Developed API services to automatically generate and execute logistical processes facilitating swift delivery of goods and eliminating manual verification reducing 3 man-hours a day
- Performed database administration activities such as designing, maintaining and performance tuning relational schema on PostgreSQL database

Technologies & Frameworks: TypeScript, Fastify, PostgreSQL, Trello, Git, Agile Methodology

**Tata Consultancy Services, Mumbai, India**

**Sep. 2018 - Mar. 2020**

**Systems Engineer**

- Improved website for storing agent details and business brought by agents for insurance client functionalities built on Java, Hibernate and Struts
- Refined complex SQL queries and modified stored procedures and functions to elevate database performance by 20%
- Resolved production incident issues by engaging directly with customers on resolving critical business issues and achieved a customer satisfaction score (CSAT) of 4.5+/5
- Coordinated with client on development of rule engine on IBM ODM to evaluate eligibility of customers for loan approval for major US based banking institution

Technologies & Frameworks: Java, Struts, Hibernate, Oracle, IBM ODM, Eclipse, JIRA, Git, Agile Methodology

## ACADEMIC PROJECTS

**UBIQ - Mapper**

- Created a docker image of Open Street Maps data for efficient and fast retrieval of data related to nodes and ways
- Formulated an algorithm to segregate nodes data based on intersections of roads using Python and map matched user GPS data using Open-Source Routing Machine docker image
- Stored and mapped user data to roads based on intersections to display road specific statistics according to intersections in Python and MongoDB

**Mini Search Engine**

- Scraped Twitter tweets related to Covid-19 with tweepy and indexed tweets on Solr with pysolr
- Implemented Document-at-a-time strategy to return Boolean query results from Solr and incorporated TF-IDF ranked retrieval along with skip pointers for efficient retrieval from 60000+ tweets in python
- Hosted search engine on AWS via Flask endpoint and built website on HTML, CSS and Javascript

**Text Chat Application**

- Devised a text chat application following client-server architecture in C
- Incorporated features of log status, statistics of messages, message queuing, blocked list of all clients on server and client features included logged in list of clients, block, unblock, send messages

## SKILLS

**Languages:** Java, TypeScript, Python, JavaScript, C, HTML, CSS, Hibernate, Struts

**Database:** PostgreSQL, Oracle, SQL, MySQL

**Tools & Platforms:** Visual Studio Code, Eclipse, MS Office, Git, Solr, AWS, Trello, JIRA, Jenkins, Kubernetes

## ACHIEVEMENTS AND CERTIFICATIONS

- Awarded ILP Kudos Award for being best performer and LIREL award for being role model of batch of size 120 at Tata Consultancy Services **Nov. 2018**
- Presented a technical paper titled 'Augmented Reality based Virtual Furniture' at INDIACOM 2018, 5th International Conference – an IEEE Conference on "Computing for Sustainable Global Development" **Mar. 2018**
- Placed in top 100 in country for IEEEExtreme 24-hour global coding competition 9.0 and 8.0 **Oct. 2015, Oct. 2014**