# HACK A THLON

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## EDUCATION

**Master of Science: Computer Science, University at Buffalo**, The State University of New York, June 20XX

**Bachelor of Engineering: Electronics & Telecommunication**, University of Pune, India, August 20XX

## SKILLS & TOOLS

**Languages:** Java, Python, R, Visual Basic

**Data Management & Analytics:** MSSQL, SQLite, NoSQL (Pouch/Couch)

**Web Development:** HTML, CSS, JavaScript

**Tools:** Eclipse, Jupyter, Visual Studio, Android Studio

## COMPUTER SCIENCE PROJECTS

### Alignment-Free Sequence Analysis using Deep Learning: Python, Pytorch, Jupyter

* Employ a CNN based model for sequencing analysis using an alignment free approach to reduce computation time complexity, performing various experiments to tune parameters and optimize model

### Big Data Analytics using Hadoop and Spark: Java, Hadoop, HDFS, Spark

* Derived N-gram word co-occurrences along with lemmatization from a large-scale Latin text data utilizing MapReduce and Spark

### Multilingual Search System for Twitter: Java, JavaScript, Apache SOLR, AWS (EC2, S3), Bootstrap

* Engineered search system incorporating data from Twitter REST API and indexes it in SOLR to provide relevant results for queries
* Built a custom Dismax Parser plugin which translates query in other languages and boosts appropriately

### Android Group Messenger with Simple Amazon Dynamo: Java, Android Studio, Distributed Systems

* Built a Group Messenger to handle concurrent message ordering, routing in P2P network with Distributed Hash Table and fault tolerance via Dynamo-style key-value storage

### Analysis of World Bank Data: R, Tableau

* Cleaned, munged, and applied machine learning algorithms to classify and visualize results in a Tableau dashboard

## WORK EXPERIENCE

• Developed and maintained CI/CD pipelines to automate the build, test, and deployment processes for a cross-platform mobile application, ensuring consistent and reliable releases.

• Refactored 40% of a cross-platform mobile application, employing an MVC framework (Vue.js) and NoSQL database (Pouch/Couch), while following agile development practices.

• Analyzed data from OLTP and OLAP data warehouses using MSSQL and Microstrategy Reporting Tool while working as a Software Test Analyst at Infosys.

### Student Assistant, UB IT Department, Buffalo, NY: November 20XX – May 20XX

* Supported 1,000+ library patrons per week with printing and applications for issues mainly involving MS Office
* Maintained inventories and printing site supplies within specified limits

### Software Engineering Intern, 43North Organization, Buffalo, NY: June 20XX – August 20XX

* Developed first mobile application prototype to minimize time required by HVAC contractors to conduct inspection
* Re-factored 40% of a cross-platform mobile application employing MVC framework (Vue.js) and NoSQL database (Pouch/Couch)

### Software Test Analyst, Infosys India Pvt. Ltd., India: August 20XX – June 20XX

* Worked for US based insurance company on 15 applications and 45 projects
* Supervised execution of 10 projects, giving daily progress reports to higher management and clients

• Developed a multilingual search system for Twitter, leveraging AWS services such as EC2 and S3 to power the backend infrastructure.

* Prepared test plans, executed end-to-end functional testing, and delivered defect free projects

• Engineered a Group Messenger application to handle concurrent message ordering, routing in a P2P network with a Distributed Hash Table, and fault tolerance via a Dynamo-style key-value storage system.

• Developed RESTful APIs using Flask framework to power a multilingual search system for Twitter, handling data from the Twitter REST API and indexing it in Apache SOLR.

* Analyzed data from OLTP and OLAP data warehouses using MSSQL and Microstrategy Reporting Tool
* Mentored new team members via knowledge transfer sessions

## AWARDS & INVOLVEMENT

**Volunteer,** UB Office of Admissions, January 20XX – May 20XX

**Membership Lead**, IEEE Student Chapter, University of Pune, August 20XX – June 20XX