

AKHILANAND SIRRA

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EDUCATION

Master of Science, Software Engineering Systems *May 2023 (Expected)*

Northeastern University, Boston, MA

GPA: 4.0

Coursework: Object-Oriented Design, Algorithms, Enterprise Software Design, Web Design and UI Engineering

Bachelor of Engineering, Information Technology *June 2021*

Chaitanya Bharathi Institute of Technology, Hyderabad, India

Coursework: Algorithms & Data Structures, Database Systems, Software Engineering, Operating Systems

TECHNICAL SKILLS

| | |
|---------------------------------|---|
| Programming | Java, Python, JavaScript, C/C++ |
| Web Development | HTML, CSS, XML, Bootstrap, Spring Boot, React.js, Node.js (Express) |
| Database | SQL, MySQL, Relational Databases, NoSQL |
| Tools & Technologies | Git, Android, AWS, Photoshop, Illustrator, L ^A T _E X, After Effects, Unity3D, Blender |

EXPERIENCE

Cognizant *April 2021 – July 2021*
Program Analyst Trainee *Hyderabad, India*

- Developed an Android application to simplify the tedious task of manually searching & uninstalling malicious apps
- Slashed App scanning time by 85% by implementing Hash Table based algorithm leading to a 30% improvement in app rendering performance
- Refactored code and used Java 8 lambdas and streams, leading to a 15% reduction in the number of code lines
- Collaborated with designers, engineers, and product managers to build great experiences

PROJECTS

Daycare Java Application | GITHUB *September 2021 – December 2021*
Java, Swing UI, MySQL, JDBC *Northeastern University*

- Designed a Java Swing Application for Preschool Daycare System with login and registration functionalities
- Developed an alert system to mail parents reminders regarding the due date of vaccination records
- Implemented Factory design pattern for the registration system, Model View Controller Design Pattern for vaccination system and JavaMail API to send emails
- Designed the UI of the application using Swing API and MySQL for the database

Analysis of Sorting Algorithms for Natural Language | GITHUB *September 2021 – December 2021*
Java, JUnit *Northeastern University*

- Implemented Radix Sort, Dual-Pivot Quick Sort, and Husky Sort to sort 1 million Telugu & Chinese words
- Compared the performance of all the sorting algorithms for Unicode characters, performed benchmarking, unit testing, and generated a performance evaluation report

COVID-19 Tracker | WEBSITE, GITHUB *June 2020 – August 2020*
React, JavaScript, HTML, CSS

- Built a React Web application to keep track of coronavirus cases around the world using COVID-19 API
- Used detailed cards and charts to show the extent of coronavirus outbreak using Chart.js

CBIT Student App | PLAYSTORE, GITHUB *October 2019 – February 2020*
Java, Android, XML, Jsoup, Lottie, JSON *CBIT*

- Developed & deployed an Android application to check student attendance through the CBIT website using Jsoup
- Decreased student login time by 80%(15s to 3s) by developing an algorithm that directly scrapes the login URL
- Added Stay Signed In feature to preserve the user's session & maintained the session using URL rewriting