

Kaustav

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<https://github.com/KaustavSBU>

Education

Stony Brook University
New York, U.S
Master of Science,
Computer Science
Jan 2019-May 2020

West Bengal University of Technology
West Bengal, India
Bachelor of Technology,
Information Technology
Aug 2012-Jul 2016

Skills

Languages: C, Java, Python, SQL,
PL/SQL, R
WebDev : HTML5, CSS3, JS, JQuery,
PHP, Bootstrap

ORM : Hibernate, Red Bean PHP, iBatis
Databases : Sybase ASE, MySQL, SQL
Anywhere, IBM DB2, Oracle

Big Data : Hadoop, Amazon Elastic
Map Reduce
Data Science: NumPy, SciPy, Pandas,
Matplotlib, Seaborn, Scikit-learn

Platform and Framework : Eclipse,
IntelliJ, Pycharm, Spring MVC
Other Tools: MS Office, Git, Apache
SVN, Maven, Jira

Teaching

Graduate Teaching Assistant for
Graduate-Level Databases Course
CSE 532: Theory of Database Systems

Extra-Curricular

- Part of English and Science Tutoring
Team for underprivileged children.
Program headed by Make A Difference
(MAD).

- Actively took part in TCS Kolkata
Marathons.

Work Experience and Internships

Jul'16-Dec'18 Tata Consultancy Services (TCS) Ltd., Kolkata
-Designation: Systems Engineer
Desktop Application Development in *JavaFX*, *Spring Framework*
and *Apache iBatis*, Database Management in *SAP Sybase*
Adaptive Server Enterprise and *SQL Anywhere*.
Experienced in managing multi-clustered server environments, that
is capable of handling 24k+ clients simultaneously (highest in the
world, eclipsing the likes of Walmart US and Morrisons UK).

Jun-July'15 Ministry of Indian Railways, Govt. of India
-Designation: Summer Intern
Web Application Development of *Payroll Management System*,
commonly known as Integrated Payroll and Accounting System
(IPAS), using PHP and MySQL.

Academic Projects

Oct-Nov'19 SHARK2 Decoder
- SHARK2 is a large vocabulary shorthand writing system for pen-
based computers. This method of speed-writing for pen-based
computing utilizes gesturing on a stylus keyboard for familiar
words and tapping for others. The project involves decoding an
user input gesture and outputting the best decoded word, given a
dictionary containing 10k words using the SHARK2 algorithm.

Aug-Sep'19 IEEE-CIS Fraud Detection
- Aims to improve the efficacy of fraudulent transaction alerts for
millions of people around the world, helping businesses reduce
their fraud loss and increase their revenue.
- Uses Python Data Science Libraries like NumPy, SciPy, Pandas,
Matplotlib, Seaborn, Scikit-learn.
- Benchmark machine learning models on a challenging large scale
dataset, provided by Vesta's real-world e-commerce transactions.

Apr-May'19 NYSE Stock Analysis
- This project uses the Map Reduce programming model to
perform various analysis of different stocks of the New York
SE. Uses Hadoop, and takes as input, an exported CSV file with all
the data. The program takes 6 positional arguments. The output
has the aggregate value for each stock (i.e. each ticker).

Mar-Apr'19 Stackable File System
- This project's aim is to create a file system that automatically cre-
ates backup versions of files, and also allows us to view versions as
well as recover them. This Backup File System (bkpfs) will have to
handle several tasks via policies that has been designed, appropri-
ate justifications has been provided for the design, implemented,
and tested: backup, version access, and retention policies.

Feb-Mar'19 Encryption Decryption Linux System Call
- This project is to create a Linux kernel module in vanilla 4.20
Linux that, when loaded into Linux, will support a new system call
that can takes an input file, encrypts, decrypts, or simply copies
it, and then produces an output file.

Relevant Courses

Stony Brook University Theory of Database Systems, Operating Systems,
Advanced Topics in Computer Science (Cryptography),
Analysis of Algorithms, Data Science Fundamentals ,
Human Computer Interaction

WBUT

Algorithm and Data Structures, Database Management,
Operating Systems, Cyber Law and Security Policy,
Advanced Computer Architecture, Computer Networking,
Software Engineering, OOP & UML, Compiler Design,
Internet Technology