

EDUCATION

Masters in Computer Science	University of Illinois at Urbana Champaign, USA	Aug 2019 – Dec 2020
• <i>GPA</i> : 3.94/4.0; <i>Coursework</i> : Database System; Distributed Systems; Advanced Social Information; Design Thinking.		
Bachelors in Comp. Sci. and Eng.	Symbiosis International University, India	Jul 2015 – May 2019
• <i>GPA</i> : 8.94/10.0; Awarded “ <i>Symbiosis Award for Academic Excellence</i> ” (Departmental Rank:2 nd)		
• <i>Coursework</i> : Advanced Database Management Systems; Cloud Computing; Artificial Intelligence; Computer Networking.		

LANGUAGES AND TECHNOLOGIES

- **S/W Tools**: Java; Python; Go; C++; Git;
- **Databases**: SQL; Document (MongoDB), Graph (Neo4J)
- **Data Engineering**: Scikit-learn; Scipy; Pandas; Numpy;
- **AWS (Certified Cloud Practitioner)**: CloudFormation; Lambda;

EMPLOYMENTS

Cloud Platform Engineer Intern	AmFam, USA	May 2020 – Aug 2020
<i>Platform and Foundation Team</i> , implementing, deploying and securing cloud applications; AWS, Python . - Decreased mean time to respond (MTTR) by writing a script which identifies incorrect AWS stack metadata. - Created EC2 golden server image which is hardened on CIS Benchmarks with the help of assessment service, Inspector. - Increased security by triggering AWS Lambda using CloudWatch to notify the users about unencrypted EBS volumes.		
Graduate Teaching Assistant	University of Illinois at Urbana Champaign, USA	Jan 2020 – May 2020
<i>CS225: Data Structures</i> , designing and grading machine problems and exams for a class strength of >700 students. Conducting labs on a weekly basis with >60 students and teaching them to efficiently code diff. data structures from scratch.		
Graduate Research Assistant	University of Illinois at Urbana Champaign, USA	May 2019 – Dec 2019
<i>Everything Search</i> , information retrieval system for heavy-read apps to search by and for keywords, entities and docs; Java - Added a functionality of converting a stream of tokens into an efficient index structure optimized for read-only queries. - Performed experiments on how to efficiently populate a database and store materialized views using late materialization. <i>Web Information Extraction Project</i> , mined unstructured content on online shopping pages by extracting price, image and title elements for various products using web scraper and generated labelled dataset for further ML training; Python .		
Research Assistant	Symbiosis Centre for Medical Image Analysis, India	Mar 2018 – May 2019
Deployed a robust pipeline which converts MRI image to feature vectors using Image Filtering for Radiomics-based ML models. Paper Published in Elsevier’s <i>NeuroImage</i> journal (Vol. 22, 2019) on “Predictive Markers for Parkinson’s Disease using Radiomics and CNNs on Neuromelanin contrast”, under the guidance of Dr. Madhura Ingahlalikar, Head, SCMIA; Python .		
Software Engineer Intern	Symantec, India	Jan 2018 – Jun 2018
Researched and Developed an <i>Anti-Phishing Solution</i> to identify phishing websites in real-time for Norton Browser Extensions - Coded automation script to scrape and extracted 123 features for >100k phishing sites using Data Mining and Comp. Vision. - Modelled supervised binary classifier and semi-supervised multiclass classifier for 2 different use cases; Python .		

TECHNICAL EXPERIENCES

Research Work

- **Data Provenance in Cloud**, under the guidance of Dr. Abdu Alawini
Surveyed recent research work and reviewed challenges faced in managing data provenance in cloud systems.
- **Enhancing the resolution of a low cost thermal imaging camera**, under the guidance of Dr. Rahee Walambe
Programmed super-resolution techniques for thermal images in collaboration with DRDO, India.

MapleJuice – a simplified Hadoop: Scratch implementation of distributed computational framework which features protocols like group membership, leader election, and failure recovery, distributed file system and map-reduce algorithm for multiple applications ranging from simple word count to recommending friends based on social network graph. For testing, distributed grep was built to query terabytes of log data distributed over several machines; **Golang**.

UIUC Crime Tracking Web App: Portal for police to log daily crimes happening on UIUC campus and allows the public to visualize it. I was the backend and data engineer of the team. **MySQL, REST, Python Flask**.

Algorithmic Game Development

- **Beyond 11**: A puzzle game to place similar tiles next to one another to combine them and increase their value; **C++**.
- **Survival**: An endless platform game where players take the role of a car driver and slide using keys to avoid obstacles; **C++**.