# **Hemal Mamtora** (Immediate Joiner)

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## WORK EXPERIENCE

**Software Engineer Intern @ Facebook (Meta), Menlo Park, CA** **May 2022 – Aug 2022**

- Created privacy annotations page for asset data (Backend - PHP, Frontend - React, API - GraphQL)
- Developed annotations table with features to filter & search, rows & columns, edit annotations, go to fullscreen page
- Suggested design changes to Product Designer and Content Designer and implemented the new design

**Data Scientist @ Karza Technologies, Mumbai** **July 2020 – June 2021**

- Enhanced bank statement parser to cover 20+ unique bank statements - 5x improvement in coverage (Python)
- Trained MobilenetV2 model using TensorFlow for document rotation correction (Test error: 1.5%, R-Squared 95%)
- Analyzed OCR output from inhouse OCR and suggested possible directions for improvement

**Full Stack Intern @ Tap Cube Studios, Mumbai** **May 2018 – July 2018**

- Designed web application for real time online game tournament management (MongoDB, ExpressJS, Angular, Node)
- Developed a dashboard with components to create, manage, update and delete games and tournaments in real time

## EDUCATION

**Texas A&M University, College Station**

Master of Computer Science **GPA - 3.83/4**

- Graduate Teaching Assistant for course 'Introduction to Program Design and Concepts in C++' (Fall 2022)
- Relevant courses: Operating Systems, Analysis of Algorithms, Parallel Computing, Data Mining, Deep Learning

**Sardar Patel Institute of Technology, Mumbai** **Sept 2020**

Bachelor of Engineering in Computer Engineering **GPA - 9.61/10**

- Relevant courses: Data Structures, Object Oriented Programming (Java), Operating Systems, Big Data Analytics

## PROJECTS

**Maximum Bandwidth Path** *[Python]* **Oct 2021 – Nov 2021**

- Solved maximum bandwidth path problem by implementing Dijkstra's algorithm and Kruskal's algorithm
- Built a random graph generator to generate dense and sparse graphs to run experiments
- Concluded that Dijkstra's algorithm with heap and Kruskal's algorithm have comparable runtimes

**MLpack - machine learning library** *[Open-Source Contribution, C++]* **Jan 2020 – May 2020**

- Introduced support to load and save Sparse Matrices in MLpack using C++
- Updated command line interface parameters of Logistic Regression module for consistency in naming convention
- Revised documentation (using Doxygen), performed code reviews and reported issues (on GitHub)

**Lost and Found Web App** *[Python, Django, HTML, CSS, JavaScript]* **Feb 2019 – May 2019**

- Developed and deployed an app to report lost items and found items on college campus
- Incorporated features to search lost items, upload picture and location of items, claim items
- Mentored a team of 4 juniors in improving the app further in terms of features, front end and back end

## SKILLS

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|---|---|---|---|
| **Languages:** | Python, C++, Java, Bash, SQL, JavaScript | **ML:** | Pandas, scikit-learn, OpenCV, TensorFlow,PyTorch |
| **Tools:** | Git, Jupyter, JIRA, Spreadsheets | **Web Dev:** | React, Django, NodeJS, Angular, HTML, CSS |
| **Databases:** | MySQL, MongoDB | **Cloud:** | AWS (S3, EC2) |

## AWARDS AND ACHIEVEMENTS

- **J N Tata Endowment Scholarship** to Pursue Higher Education **May 2020**
- **Best Paper Award** in "Linguistic Computing" for "Smart Notifications based on Total Relevancy Score" (http://dx.doi.org/10.1007/978-981-15-3242-9_37) at 2nd International Conference, DJICACTA **Feb 2020**
- Certificate for volunteering at **beach cleanup** drives organized by UNEP awardee Afroz Shah **Dec 2018**
  Cleaned beaches, collected waste & educated citizens about circular economy (for total of 24+ hours)