

# PARTH PANSE

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## EDUCATION

**Master of Science, Computer Science** | **University of Maryland – Baltimore County** | Baltimore, Maryland *May 2023*  
| **GPA: 3.8/4.0**

*Coursework:* Machine Learning, Data Visualization, Information Retrieval, Algorithms, Operating Systems

**Bachelor of Engineering, Computer Science** | **University of Pune** | Pune, IND | **GPA: 3.5/4** *June 2018*

## SKILLS

|                                |   |
|--------------------------------|---|
| <b>Language and Databases:</b> | Python, Java, C++, HTML/CSS, JavaScript, MySQL, NOSql(MongoDb, OrientDB, CosmosDB)  |
| <b>Domain Skills:</b>          | Software Development, Product Development Life-cycle, Agile Methodology, Machine Learning, Cloud Deployment, Full Stack Development, Web Development, OOP, Multi-threaded programming               |
| <b>Software Engineering:</b>   | Code Maintainability/Re-use, Git, Unit Testing, Task Tracking, Load balancing (NginX), Docker, CI/CD pipeline, REST API, FastAPI, Flask, AWS, Azure Cloud, NodeJS, Linux/UNIX, VSCode, Spring, JDBC |
| <b>Machine Learning:</b>       | NumPy, Pandas, Matplotlib, Scikit, NLP, CNN, RNN, Transformers, PyTorch, Tensorflow, Keras, SpaCy, Rasa NLU, OpenCV, YoloV3, 3D Gesture Recognition, Kaldi ASR                                      |

## EXPERIENCE

**Graduate Teaching Assistant** | **University of Maryland – Baltimore County** | Baltimore, Maryland *Jan 2022 – Present*

- Responsible for reinforcing learning goals presented by the Professor for **CMSC 483 – Parallel and Distributed Processing** by reviewing the study material, holding office hours to aid students, and increasing the student's grades by **10%**.
- Responsible for outlining rubrics for the assignments, evaluating them, and assisting students in their project submissions.

**Associate – Software Developer** | **Cognizant Technology Solutions** | Pune, IND *Sep 2018 – Aug 2021*

- Designed and developed micro-services and deployed them onto production environments which are now actively being used by the business users.
- Delivered crucial solutions for a global pharmaceutical firm that has assisted scientists in publishing pre-clinical vaccination reports.
- Conducted multiple knowledge sessions pertaining to the domain of machine learning for **150+** new recruits and interns.
- Contributed to **10+** Request for Proposals (RFPs) for providing potential solutions to technical problem statements.

**Intern** | **Cognizant Technology Solutions** | Pune, IND *Mar 2018 – Jun 2018*

- Worked with a team in an Agile environment to deploy a web application onto a cloud environment.
- Gained knowledge about software product's life cycle and its release onto production scale.

## PROJECTS

**AI-assisted workbench for scientific report publishing** | Python, FastAPI, Docker, HF Transformers, PyTorch, NLP, Git, PyTest

- Developed a web app to assist scientists to analyze clinical data and help them publish reports with minimal human intervention.
- Automated repetitive jobs and streamlined the workflow for report publication, thereby reducing the turn-around time to publish the reports by around **35%**.
- Leveraged HuggingFace's Transformers to summarize data based on different sections of the report.
- Implemented scoring metrics and a user-feedback mechanism for evaluating the performance of the models, both through quantitative and qualitative measures.

**Knowledge Transition Bot** | Python, SpaCy, AWS – EC2, S3, ECS, Info. Retrieval, NOSql, REST API, NginX, PyLint, Sonarcube

- Designed a system to generate insights from Knowledge Transitions (KTs) and help them fill the knowledge gaps, thereby leading to more than **20%** effectiveness in the KT's delivered.
- Designed a document parser that helped the clients collect relevant information from a collection of documents, thereby reducing the need for manual lookup.
- Spearheaded a team of **3** during the 2<sup>nd</sup> phase of production to improve the functionalities of text analytics.

**Python Flask-based Micro-blogging Web app** | Python, Flask, MySQL, NginX, HTML, CSS, Bootstrap, Bcrypt

- Developed a full-stack web application that can host blogs posted by different users.
- Used SQL for storing/fetching records and used Bcrypt to enforce encryption on passwords stored.
- Used Unicorn as a gateway server/NginX to act as a load-balancer for scalable performance.

**Interactive Projection using 3D Gesture Recognition** | Python, Microsoft Kinect, Gesture Recognition, OpenNI, HCI

- Developed an application for recognizing gestures in a 3D space, interpreting them, & providing the corresponding feedback.
- Implemented the system using Python, used OpenCV for streaming, & defined custom gestures using OpenNI.

## ACHIEVEMENTS & ACTIVITIES

- Cognizant was awarded the **AI Breakthrough Award** for [Best NLG Platform of 2021](#) due to my contribution made in the project for 'AI-assisted workbench for scientific report publishing'.
- Most Outstanding Undergraduate Project**, awarded for 'Interactive Projection using 3D Gesture Recognition'.
- Earned an accolade for '**Highest Ranker in Placements**' during my final undergraduate year.
- Former Volunteer for Outreach**, Cognizant's Social Initiative.