

Abhishek Rajendra Prasad

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EDUCATION

The University of Texas at Dallas, TX, USA

Aug 2021 - May 2023

Master of Science, Computer Science

GPA: 4.0/4.0

Recipient of Jonsson School Graduate Study Scholarship

Courses: Machine Learning, Big Data, Statistical Methods for Data Science, Database Design, Design and Analysis of Algorithm, Robot Manipulation and Navigation, Computer Animation and Gaming

Indian Institute of Technology(IIT) Dharwad

Aug 2016 - June 2020

Bachelor of Technology, Computer Science and Engineering;

GPA: 8.38/10.0

Courses: Reinforcement learning, Artificial Intelligence, Statistical Pattern Recognition, Distributed Systems, Intr to Artificial Neural Networks & Deep Learning, Computer Architecture, Data Bases and Information Systems

TECHNICAL SKILLS

Languages: Python, C++ , Java, JavaScript, SQL, NoSQL

Frameworks: PyTorch, Flask, Spring Boot, Kafka, Kibana, Elasticsearch

Tools: Hadoop, PySpark, React, React Native, OpenCV, GCP, Kubernetes, Firebase, Android Studio

EXPERIENCE

Graduate Research Assistant - [IRV Lab](#) - The University of Texas at Dallas

Aug 2021 - Present

• Using State-of-the-Art Transformer based Deep Learning techniques to generate grasp for 2-finger robots to grasp various objects and use them to perform different tasks autonomously. *Tools: PyTorch*

Summer Analyst - Goldman Sachs, Dallas, Texas

June 2022 - Aug 2022

• Developed a single-page frontend application to include the Customer Preferences for all of the products used at Marcus. *Tools: React*

• Created an API contract for ledger money movement to resolve customer disputes. *Tools: Spring Boot*

• Collaborated with 5 other interns to pitch an idea on a tool to improve customers' financial health and presented it to employees and leadership of the firm.

Software Engineer - AirAsia, Bengaluru

July 2020 - July 2021

• Introduced [ETag](#) feature in microservices in Spring Boot, helping to validate the cache in the mobile app; making it 20% faster and consuming 40% lesser bandwidth. *Tools: Spring Boot*

• Export React widgets as Vanilla JavaScript using Webpack to enable cross-sell capability across different Tech Stack-based websites(including React Native) increased profits by 10% and reusability brought down the development time from weeks to hours. *Tools: Webpack*

• Introduced REST API microservice in Python to give user-specific recommendations for order of carousels on the homepage by recommendation model to give real-time relevant data to users. Improved click-through rate by 40%. *Tools: Python*

Software Engineer Intern - Engimat Simulation Private Limited, Bengaluru

May 2019 - July 2019

• Developed a new approach using python-OpenCV towards feature extraction from 2D engineering drawings and reconstruction it to 3D CAD models and hosted on cloud service. ([Certificate](#)) *Tools: Android Studio, GCP, Firebase*

• Developed an Android Application to use the above cloud service and created a public library of 3D Models.

PROJECTS

Twitter Sentiment Analysis ([GitHub](#))

Apr 2022

• Perform Sentiment analysis on recent movie hashtags on Twitter streaming data in real-time using *Apache Spark Streaming, Kafka, Elasticsearch, and Kibana* to visualize the crowd review.

Analysis of Actor-Critic Algorithms And its Variants

Feb 2020 - Apr 2020

• Implementing different variants of Actor-Critic algorithms and saw a steady learning curve when we incorporated Konda's paper technique to actor-critic on Atari Environments. ([Paper link](#))

PUBLICATION

Bangalore Harish, A. and A. R. Prasad (2021). "Automated 3D solid reconstruction from 2D CAD using OpenCV". In: *arXiv.org*.