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 $1,000 Graduate Study Scholarship

Indian Institute of Technology(IIT) Dharwad — **Aug 2016 - June 2020**
Bachelor of Technology, Computer Science and Engineering — GPA: 8.38/10.0

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL, PHP
Frameworks: Spring Boot, Flask, Kafka, Kibana, Elasticsearch, Keras, PyTorch
Tools: React, React Native, PySpark, GCP, Kubernetes, OpenCV, Android Studio

EXPERIENCE

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.

Graduate Research Assistant - **IRVL** - ***Intelligent Robotics and Vision Lab*** — **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, ROS*

Software Engineer - ***AirAsia, Bangalore*** — **July 2020 - July 2021**
• Introduced ETag feature in microservices, 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 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*
• Created a Seamless way to update/create data for the homepage in Content Stack using REST API by taking data from google sheets for all languages; saving 70% resource consumption. **Tools:** *Airflow, Spring Boot*

Software Engineer Intern - ***Engimat Simulation Private Limited, Bangalore*** — **May 2019 - July 2019**
• Automating the process of converting 2D Engineering drawings to 3D CAD models by building a cloud application based on OpenCV. (Certificate) **Tools:** *Python, OpenCV, Android Studio, GCP, Firebase*
• Developed an Android Application to use the above cloud service and made a public library of 3D Models.

PROJECTS

Twitter Sentiment Analysis and Visualization (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. (Paper link)

Chrome Extension for YouTube (GitHub) — **Feb 2020**
• Built a chrome extension to navigate to a required section in YouTube video and also give out a sentiment analysis for a given word or phrase.

PUBLICATION

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