

Prasanth Buddareddygari

[LinkedIn](#)

prasanthb588@gmail.com

WORK EXPERIENCE

Software Development Engineer II – Amazon, Bellevue, WA Feb 2022 – Present

- Developing backend systems involving a key promise optimization tier-1 service which helps millions of customers to get their delivery date on amazon.com website.

Software Development Engineer II – GoDaddy, Kirkland, WA June 2021 – Feb 2022

- Implemented a new e-wallet payment option in the backend with recurring billing – for customers to buy GoDaddy products, which is estimated to generate ROI of approximately \$1M annually.
- Re-designed and developed a scalable distributed system for GoDaddy's [LINE](#) messenger bot using AWS – to support in app purchases. Resulted in reducing system latency by 30% and followers increase by 25% monthly.
- Migrated traffic from social app users to different support servers, to single server with almost no down time and accurate language mapping, which increased agent's productivity and user engagement.

Software Development Engineer Intern – GoDaddy, Remote, AZ May 2020 – May 2021

- Developed a backend connector service with user tracking and push notifications using AWS – to market presence in [LINE](#) app. Helped more than 200 million users to perform in app purchases locally.
- Developed multi-lingual conversation experience for customers to purchase GoDaddy's professional email product in Facebook messenger app, which resulted in less purchase time for more than 1.5 billion users.

Data Engineer – Target, Bangalore, India Jul 2017 – Aug 2019

- Created automation process for validation and recovery of fulfillment centers operations data in Hadoop through Apache Oozie, Sqoop and Hive. Brought down the running time of the process by 25%.
- Enhanced data parser application from Apache Kafka to reduce the number of files writable to Hadoop Distributed File System. Resulted in the improvement of Hive query performance by 40%.
- Created production tables in Hive that are rapidly used by more than 5 teams across the enterprise.

EDUCATION

Master of Science in Computer Science GPA: **4.08** / 4.00

Arizona State University, Tempe, AZ Graduated May 2021

Bachelor of Technology in Computer Science and Engineering

National Institute of Technology, Warangal, India Graduated May 2017

ACADEMIC EXPERIENCE

Master's thesis – Safety of Autonomous Driving [Python, PyTorch, OpenAI Gym] Mar 2020 – Apr 2021

- Researched and developed a targeted physical adversarial attack on self-driving agent to study the robustness.
- Developed a system for creating datasets, training dynamics model and a novel optimized attack.
- Experimental results show a significant attack effectiveness over baselines. [Paper](#) accepted in [ICRA 2022](#).

Community Drive – CDrive [React Js, Firebase, Google App Engine] Mar 2020 – May 2020

- Developed the front-end of CDrive where users can upload files to storage devices volunteered by other users with parallel uploading capability using React and Firebase. This resulted in increasing the upload throughput.

Real-time Object Detection in Cloud for Surveillance Systems [Python, YOLO, AWS] Jan 2020 – Mar 2020

- Developed autoscaling architecture for object detection in videos captured by Raspberry Pi using DarkNet, S3, SQS, EC2 – to identify subjects in surveillance systems, which resulted in minimizing the end-to-end latency.

Detection of Acute Lymphoblastic Leukemia [C++, OpenCV] Aug 2016 – Jan 2017

- Developed a novel algorithm to extract features from microscopic blood images using C++, OpenCV and SVM model – to identify unhealthy cancer cells, which resulted in an overall accuracy of 86.66%. Publication [link](#).

SKILLS

- **Languages** – Python, Java, SQL, C++
- **Frameworks** – Spring Boot, Dropwizard, Flask, AWS, Google Cloud, PyTorch, MapReduce
- **Data** – MySQL, NoSQL, Hive, Dynamo DB, Spark
- **Coursework** – Computer Vision, Artificial Intelligence, Machine Learning, Cloud Computing, Data Structures and Algorithms, Distributed Systems, Statistical Learning.

AWARDS & HONORS

- [MORE](#) award from ASU for Spring 2021.
- Engineering Graduate Fellowship from ASU.
- Quarterly award for Q2, 2018 at Target.
- JEE National Merit Scholarship from MHRD, India.

ACTIVITIES

- Contributor to open-source textbook, [d2l.ai](#)
- Hackathons, tech events, and management.