

Deep Vyas

SOFTWARE ENGINEER

■ (+91) 70-2124-6585 | ■ vyasdeep.dv@gmail.com | ■ https://deepvyas.github.io | ■ deepvyas | ■ deep-vyas

Education

BITS(Birla Institute of Technology and Science), Pilani

Pilani, India

B.E(HONS) IN COMPUTER SCIENCE AND ENGINEERING

Aug. 2014 - Aug. 2018

- Graduated with a Cumulative grade point of **9.65/ 10**

Skills

Programming Go, C#, Java, Python, JavaScript

Web ASP.Net Core, Spring-Boot

Miscellaneous Amazon Web Services (AWS), Azure Cloud Services, NoSQL Datastores, Kafka, Change Streams

Experience

Stripe

Bengaluru, India

SENIOR SOFTWARE ENGINEER

Nov. 2024 - PRESENT

- Leading a pod for optimizing and automating vertical scaling of a large MongoDB fleet and also driving efficiency projects to improve cost per unit storage, while maintaining 99.99995% of uptime of databases
- Also responsible for diving deep into novel issues that pop out of running MongoDB at scale and optimizing and tuning the engine for being able to serve 5M+ QPS
- Part of the working group responsible for maintaining version currency of MongoDB at Stripe, upgrading a large fleet of databases with 0 down-time and 0 end-user facing incidents.

ONE

Hyderabad, India

ENGINEERING

Jan. 2024 - Nov. 2024

- Leading a team responsible for maintaining the core banking and risk engineering platform for the firm.
- Primary goals include maintaining unified patterns to interacting with banking ledger related vendors and also a near no-code platform for risk policy teams to deploy risk detection and analysis pieces.
- Conceptualized and build a stateful replica of our banking ledger using AWS native components and CDC for data replication which works at scale serving more than 1.5MM customers.

Microsoft India Development Center

Hyderabad, India

SENIOR SOFTWARE ENGINEER

Aug. 2021 - Jan. 2024

- Worked with Azure Data organisation to build tools and services for helping with database modernisation (cloud migration and hybrid management.)
- Developed an extension for Azure Data Studio which helps in offline assessment of Oracle Databases.
- Worked on building a cloud based solution for customers to be able to modernize their database estate, by discovering, assessing and building business cases at-scale to determine migration/hybrid management path.
- Conceptualized and prototyped a migration of the above service from a legacy stack to the latest pattern of Azure Arc which uses k8s native services.

Goldman Sachs

Bangalore, India

SOFTWARE ENGINEERING ANALYST

Jul. 2019 - Aug. 2021

- Worked in development of Apple Card platform for Marcus, a consumer bank by Goldman Sachs.
- Developed shared services and libraries to be used across cloud platform for solving common concerns like security, crypto, data etc.
- Maintained large scale Mongo deployments in association with MongoDB Atlas.
- Developed a change-data-capture platform to help with data governance and compliance.

Samsung R&D Institute

Bangalore, India

SOFTWARE ENGINEER

Jun. 2018 - Jul. 2019

- Involved in Development Deep Neural Models for large class Object Recognition.
- The models are designed keeping in mind they are to be deployed on-device. These are trained using Caffe as a framework.
- Developed several modules in C++ of the core on-device AI engine behind Bixby Vision, which deploys the above models on Flagship devices.

Microsoft India Development Center

Hyderabad, India

SOFTWARE ENGINEERING INTERN

Jan. 2018 - Jul. 2018

- Developed various native C++ and Android modules of an SDK to help anyone make custom chat cards in Microsoft Kaizala.
- Chat Cards are HTML pages which can be used for purposes like taking a Poll or playing arcade games with leaderboard in a group.
- Involved in development and maintenance of some out-of-the box game chat cards like 2048.

Samsung R&D Institute

Bangalore, India

SOFTWARE ENGINEERING INTERN

Jun. 2017 - Jul. 2017

- Developed a statistical model for ranking objects to improve user experience.

- Deployed the above model as a RESTful API for My Galaxy App used in most Samsung Mobile Devices.

HBCSE, Tata Institute Fundamental Research

Mumbai, India

SUMMER INTERN (UNDER PROF.G NAGARJUNA)

May. 2016 - Jul. 2016

- Developed and interactive dashboard for Data Analytics of MetaStudio, a GNU project subsidiary.
- The feature involved developing a visualization dashboard to provide the admin a sublime analytics of data being collected from schools across 4 Indian states

Projects

Extractive Text Summarization

DR. YASHVARDHAN SHARMA

Jan. 2017 - May. 2017

- Conducted studies in the field of automatic text summarization especially techniques used in the domain of Neural Networks.
- Developed a prototype system based on CNNs for the task of summarizing texts of Indian Languages.
- Also developed a small tool for scraping and transliterating various tweets and product reviews.

Exploration of DNS Cache Poisoning Attack in SDN Environments

DR. VISHAL GUPTA

Aug. 2017 - Dec. 2017

- Researched various DNS cache poisoning techniques like Kaminsky attacks and measures made to prevent them.
- Explored the methods to program network flow in SDN environments on OpenFlow enabled switches.
- Tried to adapt a paper Delay Fast Packets in the SDN environment by implementing it in FloodLight, an OpenFlow compliant switch controller.

Legistify (Start up Company)

BACKEND DEVELOPER INTERN

Feb. 2015 - Dec. 2015

- Involved in development of automated document making platform, which is the first of its kind in the country.
- Developed a Q&A forum as a part of Legal Research Section of the platform.

Extracurricular Activity

Coding Club, BITS-Pilani

India

CORE MEMBER & TECHNICAL HEAD

Aug. 2014 - Aug. 2018

- Gained expertise in development and deployment of Web Applications as a part of Club activities in Cultural and Technical Fests.
- Gained experience in leading a team of web developers to build on quizzing event, and also a Capture The Flag genre event.