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EXPERIENCE

Lead Backend Developer(SDE3)   Jan 2017 – Present
Verloop   Bengaluru

We at Verloop are pushing state-of-art chatbot technology. I joined Verloop as one of the founding engineers and have been instrumental in its evolution since day zero. Over the years, I have worn many hats and contributed to driving results across Backend Development, ML, DevOps and Tooling.

- Created and scaled the bot engine which powers all of the conversations at Verloop, processing on an average of two million messages per day
- Designed a highly scalable edge service that pushes events in real time to end users
- Contributed and currently maintaining our in-house order aware, strongly consistent, highly available Message Queue
- For a short period, I led talent operations and ML Engineering
- I was instrumental in hiring and growing backend team to six people

Technologies: Go, Python, MySQL, Postgres, Mongo, RabbitMQ, gRPC, Twirp, Protobuf, Docker, Kubernetes, Microservices, Distributed Systems.

Backend Developer   Jun 2015 – Oct 2016
7C Studio   Remote

7C Studio was a boutique software company focused on building mobile applications. I worked as a Backend Web Developer and built REST APIs using Django, Django Rest Framework and Flask.

I worked on three major projects: Live video streaming of sports, local musicians discovery, and messaging/chat app.

Technologies: Django, Django Rest Framework, Flask, Tornado, MySQL, Postgres, MongoDB, Cassandra, Celery, Redis, Elastic Search, Rabbit MQ, Bootstrap 3, Nginx.

Project Engineer   Jun 2013 – Mar 2014
VLEAD, IIIT-H   Hyderabad

Virtual Labs Engineering and Architecture Division (VLEAD) is one of the several teams working on the Govt. of India funded 'Virtual Labs' project. The project's goal is to build labs in engineering and sciences providing real lab experience to all students with as minimum requirements as a computer system and an internet connection.

I worked on two major projects: System which helped in orchestration of KVMs and CSS UI framework for the labs.

Technologies: Tornado, Bootstrap 3, Pure CSS.

OPEN SOURCE PROJECTS

I contribute to Open Source in my free time and complete list of my contributions are available on Github - https://github.com/avinassh. Some of my projects:

- CaskDB - An educational project to teach building a disk based key value store from scratch
- Fast SQLite Inserts - An attempt to insert a billion rows under a minute in SQLite
- Pastry - An HTTP observability and load testing tool written in Go
- Fluvio Go - Fluvio client in Go, written using a mix of Go, Rust, and FFI
- Contributed to gRPC project on errors which is now the default resource
- Contributed to PyTorch by creating a Flask Deployment bootstrap server

EDUCATION

Bachelors of Engineering(Computer Science), VTU University   Jun 2012

MISCELLANEOUS

- Attended a Recurse Center batch to hack on databases (2022)
- Received a fully funded scholarship from Amazon to study Deep Reinforcement Learning (2019)
- Received a fully funded scholarship from Facebook to study Machine Learning, Deep Learning, and Computer Vision (2018)