

# Akash Khamkar

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## EDUCATION

Degree	Institute/Board	CGPA	Year
B.E Computer Engineering	D. Y. Patil School of Engineering, Pune	9.08 (Current)	2019-Present

## EXPERIENCE

- **OneFin** Feb 2022 - Jul 2022  
Bangalore (Remote)  
*Backend Engineering Intern*
  - Worked on a multi-tenant architecture with Django, PostgreSQL, Celery stack.
  - Developed several universal APIs that work generically for all the models across the codebase.
  - Created an XML parser for CRIF reports parsing, also automated the process for parsing emails with excel payloads using AWS SNS and Lambda.
  - Worked on an internal programming language based on JSON expressions called Quant, Implemented templating checks and assignment operator.
  - Created a Universal Cache Manager for caching configs/pages etc., which also supported fetching configs from the main server to the client's server, resulting in faster new tenant onboarding, as all the generic configs were automatically fetched.
  - Database query optimizations, reduced the time taken for generating the snapshot of the active loans from 20 minutes to under 30 seconds.
  - Worked on internal features such as event executors, implemented functionality for global execution on all the tenants.

## KEY PROJECTS

- **Bee - A k8s native server-less functions framework.**  
*Github - <https://github.com/akashjkhamkar/Bee>*
  - Tools & technologies used: Golang, Kubernetes, Docker
  - Supports Python, Golang and Bash scripts so far, easily configurable to add new languages.
  - Simply write your function code, and framework will handle the job of creating images, deployments and services.
  - Supports autoscaling.
- **Cereal Letter - An airflow pipeline that sends daily news letters.**  
*Github - <https://github.com/akashjkhamkar/cereal-letter>*
  - Tools & technologies used: Apache Airflow, Docker, Python, MongoDB, Postgresql, Sendgrid.
  - Designed an ETL pipeline that extracts the data from multiple apis, combines and loads the data into database, and finally sends the pdf to the users.
- **Flack - A minimalistic group chat app**  
*Github - <https://github.com/akashjkhamkar/Flack>*
  - Tools & technologies used: Javascript, SocketIO, Python, Flask, CSS
  - Implemented user authentication, file sharing, and group messaging.
- **Gitlet - A lightweight Java implementation of git.**  
*Github - <https://github.com/akashjkhamkar/Gitlet>*
  - Tools & technologies used: Java
  - Supports almost all standard git commands.
- **Songs Like That - A songs recommendations web app**  
*Live - <https://songs-like-that.vercel.app/>*
  - Tools & technologies used: Spotify API, React.js, Material Ui, and Express.
  - Generates a playlist based on the given artists/songs.
  - Users can log in with their Spotify account and add the generated playlist to their account.

## TECHNICAL SKILLS

- **Programming:** Python, Golang, JavaScript, Java
- **Databases and related tools:** PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ
- **Libraries/Frameworks:** Node.js, Django, Airflow, React & Redux, Next.js, Socket.io
- **Others:** AWS, Git, Linux, SQL, CI/CD, Docker, Kubernetes

## INTERESTS

- Playing electric/acoustic guitar, gaming, and photography.
- Producing original music as well as covers on my Youtube channel.