SHIVAM DONGRE

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I live on the internet at 🌐

EXPERIENCE

Acko   Bangalore, India
Software Development Engineer - II (Full Stack)   *August 2021 - Ongoing*

- **Finacko Accounting System**: Designed and built a scalable automated ledger that maintains all the financial transactions performed during the life-cycle of a policy and can handle 10M+ transactions in a day. Completely removed manual dependency by building automatic report generation for the finance and underwriting team while minimizing cost by 80%.
- **Config Module**: Designed and developed a module on top of BigQuery that overcomes the query size limit of 1024K characters and runs in the BigQuery infrastructure without introducing additional costs and increasing noticeable query response time.
- **Dead-Letter Queue Retry System**: Designed and developed a scalable DLQ retry architecture that runs on Apache-Airflow. DLQs can be added/removed based on configs. We managed to overcome the 14 days retention period and run infinite retries on scale.
- **Tech Stack**: Amazon Web Services(AWS), Distributed Systems, Java, Spring-Boot, Python, PostgreSQL, Apache-Airflow, NewRelic, Google BigQuery, Apache-Kafka, Redis, System Architecture, Data Structures, Algorithms, Object Oriented Design

Amdocs   Pune, India
Software Engineer (Full Stack)   *August 2019 - August 2021*

- **Ordering Management System**: Managed individual project priorities, deadlines, and deliverables. Responsibilities include design, development, deployment, code reviews, and support. Designed and developed low-latency reliable critical services related to payment and credit check using Service-Oriented Architecture.
- **Data Migration Tool**: Improved complexity of core algorithm by 40%. It helps validating migrated data for OMS.
- **Multi-Channel Self Service**: Reduced API latency by 20% by introducing various compression techniques, and caching that resulted in a much better user experience for the chatbot.
- **Tech Stack**: Java, Spring, Oracle DB, Apache Solr, REST

IndoriKart   Indore, India
Software Engineer & Co-founder   *August 2016 - Feb 2018*

- **Co-founder**: Raised money from various vendors and grew user base by 20%.
- **Backend Engineer**: Responsibilities include design and code reviews.

EDUCATION

🏛 **Institute of Engineering & Technology**   DAVV, Indore
Bachelor of Engineering in Computer Engineering   *August 2015 - June 2019*

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Networks, Machine Learning, DBMS

PROJECTS

- **Amazon Scraper**:
  - Introduced a Scraper that scrapes 50k+ books listed over Amazon and achieved 99% accuracy without getting blacklisted.
  - Tech Stack: Python, Scrapy, Django, REST, MongoDB

- **Hand Written Text Recognition**: A minimalistic model that can easily be trained on CPU
  - Implemented a neural network which consists of CNN, RNN, and a CTC layer.
  - Achieved maximum character validation error rate 10.624916%.
  - Tech Stack: Python, Flask, REST, Numpy, Pandas, Scikit-learn

- **Real-Time Traffic Management System**: Proposed an idea for reducing travel time via BRTS
  - Proposed a scalable solution architecture that handles 1K+ logs per second while consuming low system resources. The proposed architecture involved various open source tools, involving Raspberry Pi, which were hooked together as a unified product.

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Qualified for the grand finale and stood amongst top 8 participants in the **SMART INDIA HACKATHON 17** held at Noida
- Top geek at the campus **Institute of Engineering & Technology** on **GeeksforGeeks**
- Geek of the month at **GeeksforGeeks**
- Stood amongst top 3% students in the **Joint Entrance Examination**, conducted by **Indian Institute of Technology**
- Stood amongst top 1% participants in the **HACKWITHINFI 18** organized by **INFOSYS**
- Winner of state-level **Science Olympiad** held at **Madhya Pradesh**

SKILLS

- **Languages**: Java, C++, Python, SQL
- **VCS**: Git, Perforce
- **Databases**: MySQL, PostgreSQL, Oracle
- **Frameworks**: Django, Spring-Boot
- **Platform**: Linux, Windows
- **Documentation**: UML (Object Oriented Design)