Shankar N

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SKILLS

Backend & AI: Python (Flask/FastAPI), Microservices, System design, AWS (Lambda, S3, DynamoDB), Docker, Kubernetes, Redis/Queues, CI/CD, SQL, Gen-AI, Keras/TensorFlow, Deep Learning

EXPERIENCE

Founding Engineer
Stealth Startup May 2025 – Present *Bangalore*

- Worked on quick prototypes and MVPs to explore product-market fit for various consumer applications
- Led the full product development lifecycle, from ideation and architectural design to initial deployment

Tech lead
Bhanzu Feb 2023 – Apr 2025 *Bangalore*

- Architected and deployed AWS Lambda functions to manage post-payment webhooks from Juspay on the Bhanzu website, processing more than 1000 transactions daily with zero downtime
- Architected an end-to-end chatbot from DB design to writing APIs, restructured it using web-sockets to provide real-time responses to users
- Led a team of four to develop an automated Quality Control tool that analyzed teacher-student interactions, achieving 97% accuracy in performance evaluations
- Built a regression-based trainer allocation engine, predicting demo conversions by analyzing recent trainer performance, significantly optimizing demo success rates (from 7% to 12%) at scale

Senior Software Engineer
Arcesium Mar 2022 – Feb 2023 *Bangalore*

- Implemented features in post trading API to help with cash flow and caching reports via AWS
- Wrote unit-tests achieving 80% code coverage across the ETL codebase
- Automated trading process which involves 50+ APIs, taking care of input/output dependencies using async jobs
- Designed event loop scheduler for running multiple reports using Redis Queue

Freelance Developer
Freelancer Oct 2020 – Feb 2022 *Remote*

- Created an interactive website using Python and Django that lets real estate agents visually map property boundaries and adjust lot sizes
- Worked on a website that provides customized gifts based on the birth year, anniversaries etc using Wordpress

Software Engineer
Samsung R&D Institute Jan 2019 – Sep 2020 *Bangalore*

- Implemented a Neural Network to gather information from images for dynamic widget placement with 92% accuracy
- Developed an android application to demonstrate the working of dynamic widget placement
- Worked on lightweight ML models, modifying their architecture to decrease run time on mobile by 300% using TFlite

PROJECTS

Juno | *Python, Flask, SQLite, Git, CI/CD, Redis, AWS, Docker, Microservices*

- Engineered a data ingestion module to transform nested JSON into a tabular format for storage in SQLite DB
- Showed API diagnostics for reports running on k8s/docker via Elastic Stack

Bhanzu Buddy | *Python, FastAPI, LLM, Docker, DynamoDB*

- Created a chatbot to answer questions using in-house curriculum (Used LLM + RAG). Over 80% of students interact with the bot on a monthly basis
- Wrote rate limiter and added queuing mechanism to handle GPU traffic achieving 100% uptime

EDUCATION

Amrita Vishwa Vidyapeetham   Coimbatore, TN

Bachelor of Technology, Computer Science and Engineering   *2012 – 2016*

- Took part in ACM-ICPC and secured top 20 ranking all over India

PAPER PUBLICATIONS & PATENT

Leaf Recognition Algorithm for Retrieving Medicinal Information, ISTA 2016. Advances in Intelligent Systems and Computing, vol 530. Springer, Cham

Dynamic User Interface Composition, CVIP 2020. Communications in Computer and Information Science (CCIS, volume 1377). Springer

Co-author of patent: System and method for dynamic UI layout generation. 201941038129 A, filed 21/09/2019, 26/03/2021