Shrey Bhadiyadara

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Education

Arizona State University — Tempe, AZ
Master of Science in Computer Science — *August 2023 – May 2025*

Dharmsinh Desai University — Nadiad, India
Bachelor of Technology in Computer Engineering — *August 2018 – May 2022*

Technical Skills

Languages: JavaScript, Python, TypeScript, HTML, CSS, SQL, NoSQL
Frameworks: React, Django, DRF, NodeJS, Redux, Express.js, Celery, jQuery, Socket.io
DB/Storage: MongoDB, PostgreSQL, DynamoDB, ElasticSearch, Memcached
Tools: Git, Docker, AWS CDK, AWS SDK, Kubernetes, GitHub Actions, AWS (EC2, S3, Lambda, API Gateway, EKS, Fargate, CloudFront, Cognito, CloudWatch)
AI/ML: PyTorch, AutoGen, LangChain, OpenAI API, Scikit-learn, Hugging Face

Experience

Software Engineer — August 2022 – Present
Neliti Pte. Ltd. — *Remote*

- As the founding engineer, led the development of Neliti Dashboard, building a responsive and scalable frontend using React, Redux, TailwindCSS, and TypeScript, coupled with a robust Django Rest Framework (DRF) backend
- Developed and automated a Docker-based deployment pipeline for a distributed Django and PostgreSQL system, streamlining the development workflow and reducing bug reports by 23% through simplified testing practices
- Improved search efficiency for 12 million users by transitioning data processing from Solr to Elasticsearch, enhancing search performance by reducing query time
- Led the integration of Xendit and Square payment gateways, collaborating closely with the CTO to define technical requirements, align with business objectives, and guide the implementation process
- Automated web crawling of journals, integrating DOI registration through Crossref API and domain setup using AWS Route 53 via scheduled CRON jobs, decreasing average registration time from 2 hours to under 20 minutes
- Architected end-to-end CI/CD pipeline using GitHub Actions, Docker, and AWS Fargate/EKS, reducing deployment time from 1 hour to 14 minutes and achieving 99.9% application availability
- Designed and implemented a token-based pricing model and a role-based access control (RBAC) system, collaborating with the team on pricing strategy, user needs, and security requirements

Full Stack Developer — January 2022 – June 2022
Suvit Fintech Pvt. Ltd. — *Surat, India*

- Collaborated with a junior developer to automate accounting data entry using Node.js, React, DynamoDB, and GraphQL, achieving high-throughput processing (10,000+ rows in less than 2 minutes) and reducing manual effort
- Improved React Table rendering speed by 27% by leveraging React DevTools Profiler to identify bottlenecks, applying useMemo and useCallback for memoization, and optimizing cell rendering logic

Projects

Multi-Agent Review Analysis for Restaurant Scoring

- Built a multi-agent workflow using AutoGen and GPT-4o-mini to extract restaurant ratings from unstructured text reviews, processing over 10,000 reviews with a 96.67% accuracy rate in identifying food and service quality scores

Tuning Large Language Model for GSM8K(Grade School Math 8K) Dataset

- Achieved 94.24% test accuracy fine-tuning Llama-2-7b-hf on GSM8K utilizing QLoRA and PEFT with A100 GPUs, cutting training time from 10+ hours to under 30 minutes; used WandB for monitoring

AWS Serverless File Processing System

- Architected a serverless application using AWS services and ReactJS for secure file uploads, with VM provisioning for data processing; Utilized AWS CDK in TypeScript for deployments, reducing deployment time by 50%

Context-aware music recommender

- Developed a context-aware music recommender system using hybrid collaborative filtering, incorporating real-time contextual data (e.g., driving style, mood) to improve the accuracy and relevance of music recommendations
- Implemented matrix factorization and cosine similarity for user/item relationships, achieving an AUC of 0.85