

Shrey Bhadiyadara

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EDUCATION

Arizona State University

Master of Science in Computer Science

Tempe, AZ

August 2023 – May 2025

Dharmsinh Desai University

Bachelor of Technology in Computer Engineering

Nadiad, India

August 2018 – May 2022

TECHNICAL SKILLS

Languages: JavaScript, Python, TypeScript, HTML, CSS, SQL/NoSQL, Java, C

Frameworks: ReactJS, Django, NodeJS, Redux, Express.js, Celery, jQuery, Spring Boot, Socket.io, AJAX

DB/Storage: MongoDB, PostgreSQL, MySQL, DynamoDB, Elasticsearch, Solr, Memcached

Tools: Git, Docker, Terraform, AWS CDK, AWS SDK, GitHub Actions, Jira, Postman, Ansible, AWS (EC2, S3, Lambda, API Gateway, EKS, Fargate, CloudFront, Cognito, CloudWatch), Firebase, Vercel, Kubernetes, GitLab

Others: Kafka, Webpack, Boto3

EXPERIENCE

Software Engineer

Neliti Pte. Ltd.

August 2022 – Present

Remote, Worldwide

- Developed and automated deployment for distributed systems with Django, Docker, and PostgreSQL, streamlining data flow and reducing bug reports by simplifying testing practices
- Led development as the founding engineer of Neliti Dashboard, utilizing React, Next.js, TailwindCSS, and TypeScript for a responsive and scalable frontend, and Django Rest Framework(DRF) for building a backend
- Improved search efficiency for 12 million users by transitioning data processing from Solr to Elasticsearch, leveraging AWS SQS to enhance search performance by reducing query time
- Enhanced frontend performance of the core product by integrating Memcached and AlpineJS, resulting in a smoother user experience and improved SEO, which increased code readability and future maintainability
- Implemented Kubernetes infrastructure with Terraform, AWS EKS, and Fargate, automating CI/CD with GitHub Actions and Ansible, reducing errors and cutting deployment time by 2 hrs per release
- Built an internal page builder to streamline content creation and launched Neliti's ad platform, increasing annual ad revenue by over \$100K

Full Stack Developer

Suvit Fintech Pvt. Ltd.

January 2022 – June 2022

Surat, India

- Automated data entry workflows for accounting software using Node.js, React, DynamoDB, and GraphQL, which reduced manual data entry efforts and processed over 10,000 rows in under two minutes
- Enhanced real-time updates and team communication by integrating Socket.io and Intercom, decreasing loading times and providing a more responsive user experience
- Improved UI responsiveness by 20% through Redux for state management and caching API responses, reducing load on the server and supporting a seamless user experience
- Developed a scalable GraphQL API with Node.js and Relay, decreasing response times and bandwidth usage, and collaborated with backend teams to optimize data retrieval strategies

PROJECTS

Tuning Large Language Model for Math Problem Solving (GSM8K Dataset)

- Fine-tuned the 'meta-llama/Llama-2-7b-hf' model on the GSM8K dataset, achieving 94.24% test accuracy, utilizing NVIDIA A100 GPUs with CUDA to reduce training time from over 10 hours to under 30 minutes
- Tracked training progress using exact match metrics and reductions in train/validation loss, visualizing improvements through Weights & Biases (WandB)

AWS Serverless File Processing System

- Designed 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% and adhering to AWS best practices for scalability and security