Utkarsh kumar singh

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EDUCATION

National College of Ireland — Dublin, Ireland
Master in Cloud Computing — *Jan. 2024 { Feb. 2025*

Centre for Development of Advanced Computing, ACTS (Gov of India) — Pune, India
Post Graduate Diploma in Advanced Computing — *Feb. 2019 { Aug. 2019*

Ajay Kumar Garg Engineering College — Ghaziabad, India
Bachelor Of Technology in Mechanical Engineering — *July 2013 { July. 2017*

EXPERIENCE

Senior Software Development Engineer — Sept 2019 – Dec 2023
Afour Technologies — *Pune, India*

- Leveraged 3ds.js to create interactive data visualizations (graphs, tables) and plot corresponding data points on maps for enhanced user comprehension.
- Increased customer engagement by analyzing user behavior with Google Analytics.
- Improved customer experience with faster and more reliable in-app payments.
- Streamlined communication with users via Twilio integration for notifications and verifications.
- Enhanced user engagement with QR codes for information, promotions, and direct navigation.
- Utilized CloudFront for efficient static asset delivery and implemented code splitting to load components on demand. This resulted in a significant reduction in initial load time and improved user experience.
- Resolved critical app defects to prevent outages using Crashlytics.
- Managed app deployment and collaborated with teams to deliver new features.

PROJECTS

Secure Image Upload Web app | *Next js, Lambda, Docker, S3, DynamoDB, CloudFront, Code Pipeline, CloudWatch*

- Developed a responsive web application for secure image upload, viewing, and deletion.
- Implemented serverless architecture on AWS Lambda for scalability and cost-efficiency.
- Leveraged AWS services like S3 for image storage, DynamoDB for metadata, and CloudFront for fast content delivery.
- Integrated CloudWatch for application monitoring and automated actions based on events.
- Built a custom JavaScript library to handle efficient image uploads in chunks.
- Utilized AWS CodePipeline for automated deployment upon code updates in Github.

Decentralized Sports Ecommerce Platform | *React, Contracts, Web3.js, Docker, AWS EBS, MetaMask, IPFS*

- Developed a decentralized sports ecommerce platform built on the Ethereum blockchain.
- Eliminated intermediaries using blockchain technology, enhancing trust and security.
- Integrated MetaMask for user wallet connection and Web3.js for blockchain interaction.
- Utilized IPFS for directly fetching product images, eliminating reliance on centralized servers and promoting data security.
- Utilized Docker containers for efficient packaging and deployed on AWS Elastic Beanstalk for high availability.

Learning Management System | *Python, Django, Pytest, Sonar Cloud, Elastic beanstalk, GitHub, CodePipeline*

- Utilized AWS Elastic Beanstalk for scalability and efficient management.
- Implemented AWS CodePipeline to streamline deployment and ensure code quality.
- Integrated SonarCloud for continuous code monitoring and improvement.

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Dart
Frameworks: React, React native,Node.js, Django, Angular js, Flutter
Developer Tools: Git, Docker, Jenkins, Firebase (GCP), AWS, VS Code, Xcode, Jira ,Docker, Fastlane, Android studio, SonarCube