

# SHIVANJAY WAGH

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## WORK EXPERIENCE

**Newgen Software** | Software Engineer | Java, JS, TS, SQL, Maven, Gradle, Agile Aug 2021 – Aug 2022

- **Developed** back-end logic with Spring Boot APIs to implement a country-wide underwriting model to give policy quotes to over **500,000** potential customers, gaining the company an increase in revenue and sales.
- **Engineered** and executed load rebalancing strategies within **Kafka**, fostering 40 percent performance optimizations.
- **Conducted** a comprehensive review of test coverage in microservices, pinpointed gaps in test case scenarios, and added 250+ new **test** cases, resulting in a **50%** decrease in production incidents.
- **Utilized** CI CD tools, Sonar to increase overall code quality by **35 %**, Jenkins to reduce build time by 25%.
- **Instituted** Database connectivity with JDBC and maintained **SQL** scripts to manage and manipulate relational databases, ensuring data accuracy and efficiency in software applications.
- **Developed** automated unit testing using JUnit in a Java environment, resulting in a 50% reduction in defects and a 30% increase in test coverage.

**Fortiate Data Solutions** | Software Developer – ML | Python, JS, SQL, Kubernetes Jan 2021 – Aug 2021

- **Built** an automated Credit/Risk check portal for bank loan applications, users could upload their documents and the portal performed classification, verification, and text extraction from the documents, further storing it in database.
- **Deployed** AWS Lambda-driven Image classification with auto-scaling and **docker** containers. Utilized **DynamoDB** and AWS S3 storage for dynamic scaling and cost efficiency. Achieved 91% accuracy using MobileNet and ResNet.
- **Engineered** a comprehensive algorithm to analyze unstructured text data from payment files(T140), transforming it into pandas dataframes for machine learning applications and saving 95% of manual efforts.
- **Crafted** a personalized image dataset for ML applications using image augmentations, exceeding 10,000 samples, augmenting internal data assets and sparing over \$10,000 in expenses slated for a pre-compiled dataset purchase.

**SKD Consultants** | Software Developer | React, API, Microservices Aug 2019 – Jan 2021

- **Revamped** website with React JS, achieving sub-3s loading on a 4G network with A/B testing, resulting in 20% higher conversions and 15% lower bounce rates, improving user engagement and retention.
- **Demonstrated** excellent teamwork skills by working closely with 15+ team members throughout the development process of web application development.
- **Innovated** dynamic frontend interfaces using React, resulting in a 40% increase in user engagement and enriched interactions for search and information checking behaviors.

## RESEARCH EXPERIENCE

**ML Algorithms for 5G Network Intrusion Detection** | Machine Learning, Deep Learning Jan 2024 – May 2024

- Conducted research in comprehensive NIDS ML algorithms (XGBoost, ANN) enhancing adversarial security for 5G

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL, HTML, CSS, C, C++ | **Databases:** MySQL, MongoDB, MS-SQL

**Libraries:** Pandas, NumPy, Pytorch, OpenCV, PyTesseract, React.js, Node.js, Express.js, Three.js

**Tools:** Git, GitLab, Postman, AWS, Azure, PowerBI, RESTful APIs, Linux, Docker, Kubernetes

**Software Development Life Cycle models:** Agile-Scrum, Kanban, Waterfall

## EDUCATION

**Arizona State University, Tempe** Masters in Software Engineering

Aug 2022 – May 2024

Courses: Advanced Data Structure and Algorithms, Software Design, Cloud Computing

## PROJECTS

**Elastic Cloud Image Recognition Service on AWS** | JavaScript, Python, AWS, EC2, AWS CloudWatch, SQS Queue, Node.js

- **Designed** the project architecture to handle user requests via the web tier, send image processing requests to an **AWS SQS** queue, handling up to 100 requests, process the images using an EC2 instance with a pre-trained image classification model with auto-scaling feature, store the preprocessed images and processed results in **S3 buckets**.