

KOUSHIK KASHETTY

koushikkashetty@gmail.com | 857-248-7864 | [linkedin](#) | [github](#) | Dallas, TX 75062

SUMMARY

Software Engineer with 4+ years of experience building solutions in Python, Java and JavaScript. Skilled in enhancing and maintaining software, implementing bug fixes and designing new features. Proficient in working with functional teams to deliver customer focused solutions and capable of quickly adapting to R&D.

WORK EXPERIENCE

Aetna-CVS

Software Engineer

June 2024 - July 2025

Project: Care Paths

- **Backend API Development:** Developed RESTful APIs with Java and Spring Boot for the AI-Driven Member Engagement Platform, handling 500k+ daily queries and cutting response times by 25% via endpoint optimizations.
- **Frontend UI Implementation:** Created responsive components using React and Angular for the member portal, delivering personalized health insights that boosted engagement by 15% in user tests.
- **Cloud Infrastructure Setup:** Architected solutions on AWS with S3, RDS, and DynamoDB, migrating data assets to support scalable app features and ensuring 99.9% uptime during peak loads.
- **Database Optimization:** Wrote efficient SQL queries for MySQL and MS SQL Server databases, integrating third-party services to process health data and reduce query latency by 30%.
- **Deployment Automation:** Managed containerized deployments with Docker and CI/CD pipelines, automating updates for microservices and decreasing error rates by 35% over the project.
- **Agile Testing and Integration:** Collaborated in sprints to integrate AI models with TensorFlow, conducting Python-based unit tests and fixing issues for platform reliability.

Verizon

Software Engineer

Aug 2023 - May 2024

Project: Network Customer Portal

- **Frontend & UI Development:** Developed React.js components with WebSockets for real-time network status updates. Optimized Redux selectors with Vanilla JavaScript utilities to trim memory usage by 40%, fixing lag in high-traffic sessions.
- **Backend Services:** Built Node.js microservices in Nest.js for user profile management, implementing REST APIs secured by OAuth2. Migrated user data from monolithic systems, ensuring seamless transfers and slashing API response times from 800ms to 300ms.
- **Database & Data Handling:** Modeled MongoDB collections for customer interaction logs in a team effort, adding compound indexes for queries on 1M+ records. Ran batch scripts to resolve data inconsistencies, eliminating 200 duplicate entries and maintaining 99.9% accuracy.
- **Async & Event Processing:** Configured Kafka topics for outage alerts, processing 10,000 events daily. Debugged a partition backlog by rebalancing consumer groups, restoring normal flow in under an hour.
- **DevOps:** Dockerized application modules and set up Kubernetes for test environments, provisioning AWS resources via Terraform. Refactored Jenkins pipelines to include automated tests, catching 5 deployment bugs early and cutting issues by 30%.

OwlSpark

Backend Engineer

May 2022 - Aug 2022

- **Candidate Assessment Module:** Delivered a candidate assessment module, integrating voice and video analysis with React.js, Django, Generative AI and openCV, achieving a candidate satisfaction rating of 4.5 out of 5.
- **Golang Microservices:** Developed Golang microservices to assess candidate profiles and match them to job openings, leveraging Docker and Kubernetes for deployment, resulting in a 60% improvement in processing speed and accuracy.
- **Messaging Architecture:** Engineered lightweight messaging architecture with Django Channels, Web Sockets, Redis with low latency.

- **Monitoring and Analytics:** Monitored pod and container statistics by implementing Prometheus and Grafana to collect analytics and identify issues, leading to a 20% cost savings in resource utilization.

WarrantyMe

Software Engineer

Aug 2019 - June 2021

- **UI Development:** Designed and developed reusable React.js components using Hooks and Context API, creating a modular UI architecture.
- **Dashboards:** Built real-time analytics dashboards with React.js and D3.js, enhancing system performance visibility and user engagement. Implemented secure OAuth 2.0 and JWT-based authentication across the frontend, protecting access to dashboards and APIs for 400+ users.
- **API Integration:** Developed RESTful APIs using Flask and PostgreSQL to support real-time data operations for user and admin features. Integrated third-party APIs to extend platform functionality, resulting in improved customer experience and retention.
- **Infrastructure Automation:** Deployed applications on AWS EC2 and automated infrastructure provisioning using Terraform, reducing environment setup time by 50%.
- **Monitoring:** Monitoring with ELK Stack and AWS CloudWatch, enabling proactive issue detection through real-time log analysis and alerts.

PROJECTS

Project Joystick - AtSign

- Implemented an IoT device using ESP32. Data transmission to a Java application using the AtSign protocol, enabling real-time data analysis.

Biomedical Signal and Image Processing - University of Massachusetts, Boston

- Processed multi-modal biomedical datasets (EEG, fMRI, X-ray, PET) and corrected imaging artifacts across 6 modalities, enabling accurate cross-modality feature alignment and improving diagnostic model accuracy by 18% in evaluation benchmarks.

ChatBot Engine -McDonald's Company

- Used Python, Rasa, and Flask. Employed NLP techniques to enhance user interaction. Used version control with Git.

Crime Prediction Using Machine Learning - SNIST

- Developed a supervised learning model using TensorFlow, predicted with 90% accuracy. Used Matplotlib to create data visualization.

EDUCATION

University of Massachusetts, Boston

Master of Science, Computer Science - GPA: 3.7/4.0

Aug 2021 - May 2023

Sreenidhi Institute of Science and Technology

Bachelor of Engineering, Computer Science - GPA: 3.7/4.0

Aug 2016 - June 2020

SKILLS

Languages & Web Technologies	: React.js, Python, Java, JavaScript, Typescript, Spring Boot, Node.js, Nest.js, Django, Golang, SQL
Frameworks & Methodologies	: Microservices, Agile, REST, OAuth2, JWT, Spring Security, Websockets, JUnit, Jasmine, Cypress, Nest.js
Tools	: GitHub, Apache Kafka, Kibana, Rabbit MQ, Redis, Git, Maven, Ngnix, ESP32
Cloud and DevOps Technologies	: Terraform, Google Cloud Platform, Docker, Kubernetes, AWS(EC2,S3), Prometheus, Grafana, Jenkins, ELK
Databases	: MySQL, MSSQL, Postgres, Cassandra, MongoDB
Machine Learning and Data Science	: Rasa, Gen AI, openCV, TensorFlow, NLP Techniques, Supervised Learning, Matplotlib