

ANKITA UDAYKUMAR KULKARNI

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SUMMARY

Software Engineer with **5+ years of experience** designing and scaling high-performance web and data platforms. Proven expertise in **AI/ML, data pipelines, distributed systems, and cloud deployments (AWS, Docker, Kubernetes)**. Skilled at optimizing architectures, reducing processing times, and delivering business impact.

TECHNICAL SKILLS

- Languages: Python, Java, JavaScript, Scala, PHP, Shell Script, C++
- Frameworks: Spark, PyTorch, TensorFlow, scikit-learn, MLflow, Angular, React.js, Node.js, Flask, Laravel, J2EE
- Databases: Oracle, SQL, PostgreSQL, DynamoDB, SQLite3
- Cloud & DevOps: AWS (EC2, S3, ELB, Route 53, IAM), Docker, Kubernetes, Jenkins, RabbitMQ, Cron, Kafka
- Web Tech: HTML, CSS, Bootstrap, REST APIs
- Tools & Methods: Git, SVN, ServiceNow, Agile-Scrum, TDD, CI/CD

PROFESSIONAL EXPERIENCE

Software Engineer, Barclays Inc, USA / August 2023-Present

- Developed an efficient and customizable data transfer framework using Python, Shell Script, and Angular to streamline Oracle schema transfers, reducing development time from **11+ hours to ~4 hours**.
- Built high-performance ingestion pipelines processing millions of daily transactions, enriching data for upstream applications, and exposing APIs for seamless onboarding of new data pipelines.
- Optimized framework performance by implementing split pipelines leveraging Spark's parallel processing, reducing processing time from **2.5 hours to 1.3 hours (50% improvement)**.
- Engineered a Kafka listener to process high-volume notification streams, improving the efficiency of the Gateway framework and enabling the onboarding of new data pipelines seamlessly.
- Designed and implemented a Widget Recommendation Engine POC using Collaborative Filtering to analyze user search patterns and behaviors, achieving **84% AUC accuracy** in Phase 1.
- Hands-on experience with modern **AI/ML frameworks** including PyTorch, TensorFlow, scikit-learn, pandas, airflow and Helm Charts for building scalable data-driven solutions.
- Enhanced DevOps practices by configuring cron jobs, optimizing data architectures, improving monitoring, and streamlining deployment pipelines.

Full Stack Developer, Greg Morris Cards Inc, USA / July 2021- May 2023

- Modernized GMC websites (public & intranet) with React, HTML, and JavaScript, while enhancing performance by **48%** and delivering high-availability solutions on AWS (ELB, Route 53, IAM, EC2, S3).
- Built AI-powered fraud detection tools using Python, OpenCV, Scikit-Image, and NumPy, improving card grading efficiency by **77% (16 vs 9 cards per scan)**; automated reporting with Python, Shell, and RabbitMQ.
- Developed REST APIs with complex bid-increment logic for Greg Morris Auctions, streamlining auction operations and earning **team-wide recognition**.

Software Engineer, NTT Data, India / July 2017 - July 2019

- Built multi-platform **chatbots** (WhatsApp, LINE, Facebook, Viber) with Dialogflow, Watson NLP, Java Spring Boot, React, and Node.js.
- Delivered Blockchain + IoT and AI healthcare POC, earning a SPOT Award.
- Implemented Agile CI/CD pipelines with **Jenkins, Docker, Python, Shell**; achieved **JLPT N4 certification**.

EDUCATION

Master of Science, Computer Science (GPA: 3.77), **California State University - Fullerton**, August 2019 - May 2021

Bachelor of Science, Computer Science (CGPA: 8.8), **University of Pune - India**, July 2013 - June 2017