Prakhar Saxena

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AI Platforms & Software Engineering Leader

Innovative and result-driven leader with expertise in Artificial Intelligence and full software development lifecycle. Stellar record of success in collaborating with cross functional Agile teams to design, develop, test, implement, and support technical solutions. Delivering meaningful value to our business stakeholders.

Areas of Expertise

- Technical Agile Leadership
- Machine Learning
- Cloud Platform Development
- Large Language Models (LLMs)
- Artificial Intelligence
- Data Science & Data Analytics
- Application Architecture and Solutioning
- System Design & Integration
- Language Agnostic
- People Management
- Python Development
- Complex Problem Solving

Technical Proficiencies

Platforms/Tools/Hardware: Python | Google Cloud Platform | Artificial Intelligence | Machine Learning | Large Language Models | Google Gemini | Embeddings | Google CloudRun | GKE | Terraform | Agile (Scrum, Kanban) | Java | SQL | Scala | Apache Kafka | C# (.NET) | JavaScript (Angular, ReactJS, JSF) | Git (GitHub, Gitlab, Bitbucket) | Tableau | Kubernetes | AWS (EKS, CKAD, S3) | Google BigQuery | REST | API | User Interface (UI) | Docker | Maven | Microsoft SQL Server | Azure (AD, SQL, CDC) | OOP | PostgreSQL | CI/CD | Spring | MVC | Spring Boot | Unix/Linux | Redis Caching

Career Experience

UWM, Pontiac, MI

Team Leader – AI Platforms and Product Development   July 2024 – Present

Driving AI-Powered Automation Strategy and expanded adoption throughout the IT organization showcasing in UWM's flagship product, BOLT. Building a generalized automation platform capable of handling any document-based review requiring complex question answering for several business use cases.

- Transforming mortgage underwriting with efficiency and loan quality by leveraging Google Gemini, and custom-trained ML models with embeddings, achieving significant cost savings compared to legacy processes.
- Leading the largest enterprise use case of Google LLMs, spearheading AI-driven document analysis and real-time decision support, streamlining critical underwriting workflows including Title Review, Assets, Purchase Agreements, Pay Stubs, Credit Reports, Appraisals etc.
- Delivering millions in savings through enhanced loan quality, underwriter efficiency, and automation-first initiatives.
- Spearheading the AI Automation platform, generalizing the distinct services to serve use cases beyond mortgages.
- Serving additional dual roles:
    - Product Owner – Defining product vision, prioritizing features, and guiding iterative development cycles to maximize business value.
    - Scrum Master – Driving Agile practices, ensuring team alignment, and delivering consistent value through incremental releases. Certified Scrum Master (PSM) by Scrum.org.

Software Developer III   March 2024 – July 2024

Led and developed at UWM's Flagship Product (BOLT) Development Team. Part of the BOLT Architects Team. Led multiple Product and Organization critical initiatives. Led a group of Summer Team Members for a Broker Loyalties Rewards project. Showcasing platform-agnostic development whilst mentoring and assisting associate and senior developers on various frameworks, services, and tools.

- Currency Management, focusing on reducing technical debt and eliminating security vulnerabilities for multiple services under UWM's flagship product, BOLT.
- Acted as a technical liaison between our vendor, Qarik/Egen, and our in-house development team, overseeing environment setup and ensuring seamless integration towards picking up feature development.
- Mentored Junior Developers on the team with the software engineering principles and practices.
- Led a group of Summer Team Members (STMs/Interns) through a full-stack project in microservices architecture, working with React and .NET 8. Had an STM retention rate of 75%!
- Facilitated the Confluent (Kafka) for Kubernetes Currency initiative, bridging the gap between the Data Platforms Team and Product Development.

Data Platform Engineer II   March 2023 – March 2024

Manage and Engineer the Data Platforms collaborating seamlessly with cross-functional teams with developers and architects in achieving synergetic solutions for hundreds of teams within the organization. Provided mentorship to new, junior, and embedded Data Platform Engineers, fostering their professional growth.

- Administer Confluent Kafka Platform On-Premises, with 99.99% availability whilst overseeing the processing of billions of messages daily streaming throughout the intranet of our organization.
- Overseeing the Redis Distributed Cache Platform administration, facilitating close to 4,000 operations per second.
- Python script development to seamlessly migrate Kafka connectors from our existing cluster to the new Kubernetes environment.
- Delivering unwavering support to over 1900 technology professionals in integrating their applications and services with our Data Platforms, encompassing Kafka, Redis, and Qlik.
- Pioneering the adoption of open-source Kafka solutions to reduce vendor dependencies within our existing systems, collaborating closely with the server team to devise robust, highly available solutions that enhance our system's reliability.

NASDAQ, Philadelphia, PA   September 2019 – March 2023
Software Developer

Oversaw and controlled Trading System Software in AWS Kubernetes Cluster by updating and developing legacy and cutting-edge frameworks. Implemented Kafka message validations employing referential integrity cache. Prepared reports on programming project specifications, activities, and status. Analyzed information to recommend and plan installation of new systems or modifications of an existing system.

- Sole maintainer of an application ecosystem including both Front End and Back end with 99.999% availability.
- Introduced and presented code generators in Scala/Java, leveraging domain DDL file system.
- Designed and developed Java Spring applications from scratch to provide gateways from old trading frameworks to new consolidated Fusion frameworks.
- Achieved universal solutions through international collaboration for multiple exchanges within Nasdaq.
- Contributed to deployment of all back-end apps for new framework, integrating Nasdaq exchanges and markets.

Education

Drexel University, College of Computing & Informatics, Honors College (Pennoni)   2021
Bachelor of Science in Computer Science - Concentration in Artificial Intelligence - Concentration in   Cum Laude
Computer and Network Security | Minor in Data Science   GPA: 3.65/4.0

Licenses & Certifications

Scrum.org   2025
PSM - Professional Scrum Master I

Cornell University   2023
Leadership Essentials - Professional Certification