

# Kush Patel

S Goebbert Road  
Arlington Heights, 60005

[LinkedIn](#)

Email: pkush74@gmail.com  
Phone: (224)-483-1551

---

## **BACKGROUND:**

Senior Software Engineer with 4.5 years of experience designing and deploying large-scale data pipelines and AI-driven solutions in cloud environments. Proficient in Apache Spark, Kafka, and Azure DataBricks, with a proven track record of building data pipelines to support data-driven initiatives. Adept at mentoring junior engineers and collaborating cross-functionally to deliver high-impact projects under strict SLAs.

---

## **SKILLS:**

- **Programming Languages:** Scala, Java, PySpark, Python, SQL, JavaScript, C/C++
  - **Data Engineering:** Apache Spark, Apache Kafka, Azure DataBricks, Redis, Azure Functions, Azure Data Factory
  - **DevOps & CI/CD:** Docker, Jenkins, Azure DevOps
  - **AI:** Microsoft AI Foundry, Microsoft AutoGen, n8n
- 

## **EXPERIENCE:**

**Senior Software Engineer**

February 2024 - Present

**UnitedHealth Group, Schaumburg, IL**

- **Big data pipelines:** Designed and implemented big data pipelines using Apache Spark and Azure DataBricks in Scala, enabling ETL processes for Oracle and file systems, supporting operational workflows.
- **Pipeline Failures & Monitoring:** Monitored data pipeline failures and performed fixes to support critical business operations.
- **Technical Leadership and Mentoring:** Mentored junior engineers in data engineering best practices, fostering clean, well-tested, and documented code to support mission-critical applications.
- **Cross-Functional Collaboration:** Collaborated with third-party vendors (Cognizant, Exusia, Publicis Sapient) using Agile methodologies to deploy clinical templates on scale, resulting in more internal teams becoming interested to use our products.

## Software Engineer

June 2020 - February 2024

### UnitedHealth Group, Schaumburg, IL

- **Led Core Development:** Developed, maintained, and collaborated with development teams to build clinical web applications, using React.js
- **Streaming Pipelines:** Developed a batch streaming pipeline using Kafka and Databricks to ingest millions of provider records.
- **Took On Higher Technical Role Ownership:** Served as a Senior Data Engineer, managing development, production launches, and acting as the primary liaison with business stakeholders, achieving a very high satisfaction rate, through consistent issue resolution and timely deployments.

## Web Development Intern

June 2019 - August 2019

### University of Illinois at Chicago, Chicago, IL

- **Led Content Migration:** Accelerated the migration of 200+ knowledge base articles to the new UIC website by automating content import scripts, completing the project three weeks ahead of schedule.
- **Performed Functionality Testing:** Tested WordPress functionalities for 100+ university services using automated testing tools, ensuring seamless user experience and full accessibility compliance with WCAG 2.0 standards.

---

## EDUCATION:

### Bachelor of Science, Computer Science

#### University of Illinois at Chicago, Chicago, IL

May 2016 - May 2020

- **Relevant Coursework:** Software Design, Data Structures and Algorithms, Machine Learning, Database Systems, Distributed Systems.
- **Honors:** Dean's List.