

## OBJECTIVE

A results-driven **Senior Software Engineer** with a proven track record of delivering scalable, efficient, and innovative solutions in cloud computing, API development, and data-driven decision-making. Skilled in leveraging technologies like **Python**, **Django**, and **AWS** to optimize system performance and enhance user experience. Passionate about solving complex problems, driving cross-functional collaboration, and mentoring teams to achieve organizational goals. Seeking to further contribute by developing cutting-edge solutions that bridge technology with business impact.

## EDUCATION

University of Engineering And Technology, Lahore  
Bachelor of Computer Science

Lahore, Pakistan  
July 2018 – May 2022

## EXPERIENCE

- **Agrilift.ai** Lahore, Pakistan  
May 2024 – Present  
*Software Engineer II*
  - **External Services APIs:** Developed **External Service APIs** integrating with systems like **AWS SQS** for **message queuing** and **Open Source Weather APIs** for **real-time weather data**. Designed using the **Django Framework** with **Class-Based Viewsets** for **modular** and **maintainable code**. Improved response times by 15%.
  - **Automating Data Workflows:** Revamped utilities to meet **Python PEP 8** standards, enhancing **readability** and **performance**. Developed a **Weather Utility** for retrieving **hourly weather conditions**, ensuring **real-time data** for improved agricultural decision-making and crop health reporting.
  - **Root Cause Analysis (RCA):** Developed a **Root Cause Analysis (RCA)** feature to assist field teams in identifying crop health issues, reducing identification time and improving decision-making efficiency by 25%.
  - **Database Load Reduction:** Utilized **AWS SQS** to reduce database load by 25% in **Germination** and **Crop Health** monitoring through asynchronous data processing.
  - **Performance Optimization:** Resolved major performance bottlenecks in web applications, reducing calculation time by 80%.
  - **Cross-Team Collaboration:** Collaborated with the Data Analysis team to analyze 5 years of historical weather data and developed systems to notify farmers about abnormal conditions, reducing crop health risks. Partnered with the Data Science team to experiment with techniques that improved efficiency by 80%.
  - **Leadership and Recognition:** Interviewed and mentored **Senior and Junior Software Engineers**, contributing to team growth and effectiveness. Received a **Spot Award** for outstanding contributions to project success.
  - **Tech Stack::** Python, Django, AWS SQS, DotNet, MySQL, Shell Scripting
- **CodeViz Technologies** Lahore, Pakistan  
Jan 2023 – May 2024  
*Software Engineer I*
  - **Application Development:** Developed applications and websites using **Vue**, **NuxtJS**, **Vuetify**, and **Django REST Framework**.
  - **Scalable Architecture:** Designed scalable architectures, solved technical challenges, and implemented innovative solutions to enhance software quality.
  - **Frontend Enhancements:** Improved **NuxtJS** websites by styling pages, integrating **Google Analytics**, and enhancing **D3.js** visualizations.
  - **Database Management:** Wrote **SQL** migration scripts for **MariaDB** and optimized database performance.
  - **Tech Stack::** Python, Django, Vue, Nuxt, Tailwind CSS, Docker
- **OCloud Solutions** Lahore, Pakistan  
Jul 2022 – Dec 2022  
*Associate Software Engineer*
  - **Project Contribution:** Worked on existing projects built in **React**, **GraphQL**, **TypeScript**, **Node.js**, **Redux**, **Tailwind CSS**, and **SQL**. Contributed to the development of a smart search engine and a dynamic shopping application.
  - **Skills Development:** Acquired in-depth knowledge and honed skills in constructing web applications, focusing on user-friendly designs and enhancing user experiences. Proficient in the **PERN** stack and **GraphQL**.

## ACHIEVEMENTS

- **Software Engineer Rank:** Ranked in the Top 2% of Software Engineers globally based on GitHub contributions.
- **Python Engineer Rank:** Recognized among the Top 50 Python Developers in Pakistan based on GitHub contributions.

TECHNICAL SKILLS

---

- **Languages:** Python, JavaScript, TypeScript, SQL (PostgreSQL/MySQL)
- **Frameworks and Libraries:** Django, NuxtJS, React, Vue, D3.js
- **Backend and APIs:** REST APIs, Webhooks, GraphQL
- **DevOps and Cloud:** AWS, Docker, Firebase
- **Databases:** PostgreSQL, MySQL, MongoDB

LEADERSHIP EXPERIENCE

---

President ACM UET-NC

*Sep 2021 – May 2022*