

ALI QUIDWAI

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EDUCATION

NYU TANDON SCHOOL OF ENGINEERING

New York

Master's in Engineering; Major in Computer Engineering (Honors)

2021-2023

- Selected as a teaching assistant for Data structure and Algorithm course under Prof Manpreet S. Katari (Jan '22-Current)
- Led a research team of three graduate students to develop a computer vision application to analyze macro-nutrient information from visual and contextual inputs (MVP application [link](#), pending publication)
- Member of Plant Systems Biology @ The Coruzzi Lab, leading development of turnkey data engineering applications to help expedite the analysis of genomic data
- Conducted research with Professor Parijat Dube on topological analysis of word embeddings and co-authored a paper to be submitted to ACL and EMNLP conferences.

Dr. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY

India

Bachelor of Science and Technology; Major in Computer Science

2012-2016

- Graduated first division (Top 10% from >60000 engineering students) in the state
- Awarded best undergraduate research award (1 of 8) among the graduating class of 300 students
- Winner Best Design Award (Amphibious Robot Design); started a code chef chapter and organised ACM ICPC regionals

EXPERIENCE

Growsquares

New York

Summer Data Scientist

May 2022-Aug 2022

- Conceptualized and developed a novel dynamic growth model to predict harvest rate based on genotype, weather, and environmental interactions for plant species, with 80%+ prediction
- Led the development of the tech stack and front end, helping acquire 100+ customers for pilots, including one of the leading ag-tech players (MVP application [Demo](#))

LevelUp Academy

India

Senior Developer (Part-Time)

Oct 2019-July 2021

- Part of the founding team of the e-learning platform serving over 1000+ paid monthly basis
- Conceptualized and designed a course content management platform to enable remote learning during Covid; optimized the codebase to run on low network latency in remote parts of India with low bandwidth
- Implemented web scraping and crowdsourcing to create a 100k+ question database and utilized text analytics to develop a testing recommendation engine. These enhancements improved average practice testing time per user by 300% and boosted user acquisition from tier 3 and rural areas by 30% while optimizing platform performance for multiple browsers and applications.

Carecrew Technology Private Limited

India

Tech Led

Aug 2016-Sep 2017

- Part of the founding technology team; build MVP for a marketplace that connected drivers with affordable service centres; helping the start-up raise seed funding of \$5 million from TVS group (India's Largest brand in 2-wheeler segments)
- Build a team of three software developers (including recruitment and technical training); led the team to build a scalable system backend system that could store over 10 million+ part inventory to expand the B2B business by over 3x within 9 months
- Used design thinking approach to create a predictive maintenance system that enabled servicing of over 10000+ cars managed by the two-leading ride-share companies in India (Uber and Ola)
- Designed a proprietary data-driven predictive model that enabled a reduction in servicing costs by over 30% YoY; helping create a competitive advantage that translated to new contracts with partner firms in 3 additional cities (over 50000+ cars)

Schneider Electric

India

Research & Development intern

Jun 2015-Jul 2015

- Designed a web-based application hosted on intranet cloud servers for sharing and integration of engineering fault reports; portals ease of use, cross-browser compatibility, and responsiveness enabled a projected saving of 4500+ man-hours.

ADDITIONAL INFORMATION

- Programming Languages: C++, Python, SQL, Scikitlearn, PyTorch, Tensorflow & Keras, Gradio, Streamlit, Django, HTML, CSS, Cuda Programming.
- Relevant Courses: Deep Learning, Cybersecurity in Machine Learning, High Power Machine Learning, Database, Data Structure, and Algorithm, Internet Architecture, and Protocol, Natural Language Processing and Computational Semantics, Experience building sequence-to-sequence neural networks (LSTM's, GRU)
- Interests: Analytical psychology, with a focus on the works of Carl Gustav Jung and Alfred Adler, and the neurological underpinnings of language development, particularly as explored by Noam Chomsky.