AKASH SHUKLA

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WORK EXPERIENCE

Senior Software Engineer at Optum, UnitedHealth Group *January 2021 - Current*
CDSS Cloud Migration - *Migration of care delivery system to Azure Cloud*
- Responsible for migrating existing monolith service to Azure Cloud Microservices
- Rewrote legacy APIs and improved throughput by 90 percent

Software Engineer at Optum, UnitedHealth Group *July 2019 - Current*
Empirical - *Automated Information Extraction from Images*
- Developed automation to extract correlated fields & tabular data from images using OCR, implemented novel algorithms using bounding box placements and text pattern, achieving accuracy of 95%
- Improved efficiency by reducing average handling time for clinical records from 50 mins to 6 mins through fuzzy text pattern recognition, custom selection, auto detection, column data estimation etc
- Worked on various client POCs to extract unstructured information from images using NLP models
- Managed production releases as Release lead, responsible for tracking stories, integration and testing, production deployment, monitoring and targeted delivery & demo to clients
Catalyst - *Patient onboarding and triaging (Java,Swift, Python)*
- Developed iPadOS application for patient onboarding and triaging kiosk using Swift
- Used facial recognition and OCR of insurance cards to expedite operations activities and cut down waiting time during hospital visits by 50
- Developed in house platform for EDI data parsing and conversion using Spring Boot which resulted in saving entire EDI conversion costs

EDUCATION

Bundelkhand Institute of Engineering and Technology, Jhansi *July 2019 - May 2019*
Bachelor of Technology in Computer Science and Engineering
Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp Architecture; Engineering Entrepreneurship; Calculus III

TECHNICAL PROJECTS

Landbank (Django, SQLite, HTML/CSS) *March 2018*
Designed and implemented a Django based website for digitization of village land data(10,000+ records) of district Jhansi. It allows users to search and filter plots on the basis of various parameters. The website is currently in production and is being used by 50+ users.

ADDITIONAL EXPERIENCE

Nearmash, Internship: Developed an Ionic App that allows users to view curated events and services in and around their neighbourhood. Developed APIs for creation, searching and modification of events.
Mercenary motorsports, web development and crowdfunding lead: Ran a crowdfunding campaign and collected 6lakhs+ for R&D of high performance race Karts. Developed website with online payments integration. Successfully completed campaign within 2 months.
RCubed Club: Founded computer club that introduced students to software development via hackathons and seminars. Mentored 3 teams to qualify for ICPC regionals in its first year.

LANGUAGES AND TECHNOLOGIES

Python, Java, Flask, Pytest, MSSQL, MongoDB, Javascript,AngularJS, DevOps, Microservices
Git/GitHub, MySQL workbench, PyCharm, Postman, Jupyter Notebook, VS Code