AKASH SHUKLA

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WORK EXPERIENCE

Senior Software Engineer at Optum, UnitedHealth Group   *Jan 2022 - Current*
CDSS Cloud Migration - *Care Delivery Support System — Wellmed*
- Migrated monilith on-premises Spring application with millions of lines of code into logical microservices on a Azure Kubernetes cluster.
- Identified cost optimisation opportunity by migrating fully managed CosmosDB to dedicated Mongo DB Cloud which resulted in $100,000 in annual infrastructure savings.
- Implemented performance monitoring using elastic APM in order to identify most commonly queried APIS. Reduced api responses by 95 percent by utilising redis to cache most frequently used requests.
- Optimised User Experience on pages with slower APIs by utilising Infinite Scrolling pagination.
- Conducted technical domain specific interviews for Full Stack Engineers.

Software Engineer at Optum, UnitedHealth Group   *Jul 2019 - Dec 2022*
Empirical - *Automated Information Extraction from Images*
- Developed a product for automated information extraction from images with 95% accuracy, leveraging a novel information structuring algorithm integrated with Azure OCR.
- Reduced insurance claims audit time from 50 mins to 6 minutes by integrating the in house information extraction tool to the audit workflow.
- Led multiple end to end product releases, while reducing time to build by an avg of 5 percent on every release by automating deployment, monitoring and alerts. Acted as a POC for client demos and product training.

Catalyst - *Automated Patient Onboarding and Triage (Java,Swift, Python)*
- Reduced patient waiting time in Optum hospitals by 50 percent by developing and iPad application that utilised facial recognition and insurance card OCR for patient onboarding and triage.
- Saved entire conversion cost of EDI(Electronic Data Interchange) file formats by developing in-house platform for EDI data parsing and conversion.

ADDITIONAL EXPERIENCE

Nearmash, Internship: Developed an Ionic Application for 5 Bangalore Apartment complexes, providing curated event and service listings for the neighborhood.

Mercenary motorsports, Web development and crowdfunding lead: Raised 6+ lakhs in 2 months through a crowdfunding campaign for high-performance race karts, developing a website with online payments integration.

RCubed Club: Founded a 100+ member computer club that nurtured software development skills through hackathons and seminars, resulting in 3 teams qualifying for ICPC regionals in the first year.

TECHNICAL PROJECTS

Landbank (Django, SQLite, HTML/CSS)   *March 2018*
Designed and implemented a Django-based website for digitizing village land ownership data (10,000+ records) in Jhansi district, providing search and filtering capabilities for 50+ users.

EDUCATION

Bachelor of Technology in Computer Science and Engineering   *Jul 2015 - May 2019*
Bundelkhand Institute of Engineering and Technology, Jhansi
Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp Architecture; Engineering Entrepreneurship; Calculus III

LANGUAGES AND TECHNOLOGIES

Java, Python, TypeScript, AngularJS, Spring, Flask, MSSQL, MongoDB, CI/CD, Git, Linux, Bash