

Akash Tyagi

SOFTWARE DEVELOPMENT ENGINEER II · BACKEND DEVELOPER

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Work Experience

AllScripts

BACKEND DEVELOPEMNT ENGINEER (CONTRACT)

Remote, India

April. 2020 - Present

- Working on QA Infotech Payroll as Backend Developer for AllScripts.
- Responsible for building and maintaining Medicine Prescription Portal for Doctors leveraging Django.
- Developing autonomous medical form filling stateless utility using Java and Jython.
- Working in an micro-service architecture with agile methodology.

QA Infotech

SOFTWARE DEVELOPMENT ENGINEER II

Noida, India

Jun. 2018 - Present* (2.6+ Year)

- Developed the backend functionality to prescribe auto-prescription form leveraging Java,Python and Jython for a major US Healthcare retailer.
- Devised a **computer vision based software product** using Machine Learning and textual data processing for testing websites for accessibility for visually impaired people.
- **Led development** of 2 major projects in Education and Accessibility domain.
- Successfully **converted outsourcing project** to in-house by devising algorithm and presented successful prototype under 30 days.
- Worked closely with COO and VP of organization for developing and delivering product.
- Established ML department in organisation within 1st year and expanded to 4 developers at present.

Skills

Programming Python, Java, Jython, SQL, C++

Frameworks Django, Flask, SpringBoot

Technologies Machine Learning, Hadoop, NLP, Jenkins, Github, Linux

Key Projects

Track MF - Mutual Fund Virtual Investment Portal

trackmf.in

PYTHON, DJANGO, MYSQL, NGINX, EC2

- A Django based virtual Investment portal to track mutual fund investments across multiple Fund House and multiple schemes.
- Devised **database schema** to keep track of various investment across multiple user and multiple fund schemes.
- Developed algorithm to calculate **real time investment** value.
- Setup multiple API validation checks and auto mail trigger system.
- Deployed application on server and setup reverse proxy and DNS propertis.

AI-Testbanks

aitestbanks.com

NLP, PYTHON, BASH, FLASK, AWS, MONGODB, JENKINS

- Developed a NLP based product that generates questions in 5+ categories from ebooks automatically.
- **Decreased algorithm run time by 80%** for finding relevant distractor set with improvised indexing and pattern matching.
- Established product backend with complete codeflow architecture along with integration with MongoDB, AWS and Jenkins.
- Increased **50% more metadata coverage** and text mapping with revamped ebook parser and mapping algorithms.

ALTEYE

OPENCV, NLP, PYTHON, FLASK, CHROME EXTENSION

- Developed a utility tool that scans website for Images and matches its alt-text and vicinity text for Image relevancy.
- **Increased product relevancy** by using word embedding and Image captioning.
- Developed a Chrome Extension leveraging product API for plug and play functionality.

Education

AKTU University (Abdul Kalam Technical University)

Uttar Pradesh, India

B.TECH IN COMPUTER SCIENCE AND ENGINEERING

June. 2014 - June. 2018