

Udish Kumar

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EDUCATION

University of Southern California - M.S. Computer Science

Jan 2023 – Dec 2024

Coursework: Analysis of Algorithms, Web Technologies, Requirement Engineering
Advanced Database Systems, Information Retrieval & Web Search Engines, Security Systems

GPA: 3.5/4.0

Chandigarh Group of Colleges, Punjab Technical University, India

Aug 2012 – Jul 2016

Bachelor of Technology (Computer Science and Engineering), GPA: 3.6/4.0

Coursework: Data Structures, Operating Systems, Web Technologies, Microprocessors,
Cloud Computing, Design & Analysis of Algorithms

WORK EXPERIENCE

Graduate Teaching Assistant, University of Southern California

Aug 2023 – Dec 2023

- Contributed as a Course Producer and Course Grader for CSCI 585: Database Systems taught by Dr. Saty Raghavachary
- Managed a cohort of 800+ students solving their doubts through certain educational aid and conducted Office Hours.

Lead Software Engineer, NTT DATA India

Nov 2021 – Dec 2022

- Designed Operational Data Store(ODS) using Oracle, AWS, Python, improved internal applications by 50%.
- Headed and delegated priority-based technical tasks to a team of 5 senior and 9 junior developers involved.
- Migrated MuleSoft based careers page web service to Python based Fast API improved webpage performance by 75%.
- Redesigned organizational-wide internal mailing utilities leveraging AWS, Fast API and Flask, to solve ongoing issues.
- Awarded with Kokua award for punctuality, efficiency and accountability.

Senior Associate, PwC India

Apr 2021 – Oct 2021

- Developed, documented technical frameworks and utilities using Java, to increase team productivity by 80%.
- Led a team of 8 members for migrating the API backend system of Indian government bank using Java.
- Conducted recruitment interviews for senior & mid-senior level positions in the firm of 100+ potential candidates.

Associate Software Consultant, Software AG India

Dec 2018 – Mar 2021

- Developed 150+ RESTful APIs for Hong Kong based client & CI/CD pipeline using Jenkins, Jira, Kubernetes.
- Created a monitoring utility for 150+ APIs using Node.js and Pretty HTML library to enhance API performance tracking.
- Travelled onsite(Hong Kong) to address client's design requirements and challenges.
- Helped the customer configure Dynatrace Appmon for monitoring 200+ APIs and underlying infrastructure daily.
- Felicitated with Spot Award, Pat on back award for accountability, and Innovator Award for the monitoring utility.

Programmer Analyst, Cognizant India

Oct 2016 – Nov 2018

- Migrated 25+ business interfaces for UK, Denmark and US based retail clients using Java, Python, AWS and Oracle.
- Drafted OAT, UAT and SIT documents, release notes to facilitate clearer communication within the project scope.

SKILLS

- Programming Languages:** Python, Java, C++, JavaScript, Typescript, Kotlin
- Front-end Stack:** HTML, CSS, Angular17, AJAX, Kotlin, Node.js, Flask, React.js, Django
- Data Science and Machine Learning Tools:** Matplotlib, Scikit-learn, Pandas, NumPy, FastAPI, PyCharm, PyTorch
- Database and APIs:** RESTful APIs, Oracle SQL, MySQL, PL/SQL, PostgreSQL, MongoDB Atlas, Postman, SOAP-UI
- Project Management & Issue Tracking:** Confluence, Agile Framework, Jira | **Version Control:** GitHub, Bitbucket
- Networking:** FileZilla, WinSCP | **Monitoring Tool:** Dynatrace App Mon | **Performance Testing:** Apache JMeter
- CI/CD Tools:** Jenkins, Mirantis | **Testing:** Zephyr Tests | **Development Tools:** VS Code, IntelliJ, Android Studio, PyCharm
- Cloud Native Technology:** Kubernetes, AWS, GCP, Docker | **ETL Tools:** WebMethods, Boomi, Workato, Salesforce
- Logging:** Apache Log4j, Slf4j, Winston Logger | **Framework:** Elasticsearch Logstash Kibana

PROJECTS

FindMyProduct! Android App

- Android Mobile App developed using Kotlin, MongoDB, Node.js based RESTful API for dynamic searches, RecyclerView-based UI, Persistent wishlist, social sharing capabilities via MongoDB and Facebook SDK integration.

Product Search Angular Website

- Responsive Angular web application developed using Angular(Typescript), MongoDB, Bootstrap, Node.js featuring real-time API backed product searches. Implemented Bootstrap for responsive design solution, deployed on GCP. AJAX for interactive search experience, MongoDB for wishlist functionality.

Product Search Flask Website

- Flask-based web application utilizing HTML5, CSS, VanillaJS, Python, Flask, AJAX for live product searches via eBay's Finding API., deployed the interactive solution on GCP with JSON for efficient data visualization, enhancing the user's search experience.