Utkal Sirikonda

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Education

Clemson University	Aug 2023 - Aug 2025
Master of Science in Computer Science	*GPA: 3.8/4.0*
Indian Institute of Information Technology	Sep 2015 - Jun 2019
Bachelor of Technology in Computer Science	*CGPA: 8.3/10.0*

Experience

Full-stack Developer Co-op June 2024 – Dec 2024
SS&C Technologies, USA *Boston, MA, USA*

- Developed a Full-stack application to visualize Server Health and Test Runs with React and Node.js, using Module Federation to combine micro-frontend applications.
- Implemented Server Side Events for live data charts.
- Automated OpenAPI Specification (OAS 3.0) generation for Resourceful REST APIs.
- Decoupled a monolith application into micro-services. Containerized and deployed new micro-services with Docker, Kubernetes and Helm Chart.

Team Lead Jan 2022 – Aug 2023
Inncircles Technologies Pvt. Ltd. *Hyderabad, India*

- Enhanced and sustained an internal construction management application, constructed using Node.js, Express.js, React, and MongoDB.
- Improved system performance by redesigning data models. Run-time of APIs with new models was reduced down from 400ms to 80ms.
- Accelerated run-time calculation of business logic with Redis (caching) to fetch results instantaneously, bringing down response time to one-tenth.
- Communicated functional requirements and expectations taken from clients to a team of 4 software developers.

Full-stack Developer Jan 2021 – Dec 2021
Inncircles Technologies Pvt. Ltd. *Hyderabad, India*

- Developed an auto-scheduling algorithm that works on 1.3M data points at run-time. It can estimate completion time of a construction project (spanning 2-5 years) in advance.
- Implemented product's core functionality of automating work orders, material procurement, and data analysis involving more than 1 million data points.
- Devised a file management service with AWS S3 to store visual work logs, replacing local file storage on server.

Projects

REST API Fuzzing | *Django, OpenAPI (Swagger), RESTler, Python*

- Developed a Testing tool by integrating Microsoft's REST API Fuzzer into a Django application that tests for vulnerabilities, the input being a Swagger (OpenAPI configuration) file.
- The application tests for vulnerabilities in 3 modes, avoiding manual testing of each API and obtaining coherent API vulnerability in less than 5 seconds.

Academic Suite | *Python, Django, HTML, CSS, AWS EC2*

- Created a cloud application for academic institutions to maintain and share useful academic resources with students using Django REST framework.
- Designed and deployed the application on AWS EC2 instance with IAM, providing users global access.

Technical Skills

Languages: Javascript, Typescript, Python
Technologies: Node.js, Express.js, Django, React, Redux
Database: MongoDB (NoSQL), InfluxDB (Time-series)
Tools: Git, Docker, AWS S3, AWS EC2
Coursework: Cloud Architecture, Data Structures and Algorithms, Software Development, DevOps