

# GIRI VARSHINI BANGARI

SOFTWARE DEVELOPMENT ENGINEER

Los Angeles, California, United States

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Portfolio: [girivarshinib.github.io/Portfolio](https://girivarshinib.github.io/Portfolio)

## PROFESSIONAL SUMMARY

Experienced Software Developer with 4+ years of expertise in web design and web development. Proficient in implementing CLIs (Command Line Interfaces), designing backend REST APIs (Application Programming Interfaces) for seamless cloud integration, automated tasks and implemented key features for robust system monitoring using Python, Flask, OpenStack, AWS and Ansible. Solid foundation in front-end technologies to excel UI/UX based applications.

## PROFESSIONAL EXPERIENCE

### Software Developer | TATA Consultancy Services Ltd.

October 2019 – April 2022

*Python, Flask, Open Stack, Ansible, Django, YAML, Golang, CI/CD, REST APIs, JSON, SPEC OPEN API, Git, Gerrit, Jenkins, IDAM, LDAP, Kafka, JIRA*

- Designed and implemented REST APIs in the backend, facilitating seamless communication and integration, resulting in a 40% reduction in data retrieval time and enabling efficient cross-platform functionality.
- Developed CLIs (Command Line Interfaces) to enhance user interaction with backend APIs, optimizing user experience and enabling streamlined operations, resulting in a 25% increase in user productivity and satisfaction.
- Automated tasks using Ansible playbooks, integrating them with the REST APIs to enable automation yielding a 60% timesaving.
- Implemented critical functionalities such as health check, data collection, and Identity and Access Management (IdAM), contributing to a 43% improvement in system monitoring, data analysis, and secure user management and accessibility.
- Integrated host operations, including discover, provision, deprovision, define, upgrade, reconfigure, commit, and rollback, facilitating 50% faster host management and configuration within the cloud environment.
- Enhanced service operations, such as deploy, upgrade, commit, rollback, start, stop, restart, and reconfigure, ensuring 95% uptime and 20% faster service reconfiguration.

### Associate Software Developer | TATA Consultancy Services Ltd.

October 2018 – October 2019

*Open Stack, Microsoft Azure, Amazon Web Services (AWS), Docker, Kubernetes, Microservices, C, C++, C#, Oracle*

- Collaborated with the OpenStack Load Balancing and Orchestration Proof of Concept (POC) team, achieving 2 successful projects displaying 20% faster deployment and 15% improved scalability than previous implementations.
- Upskilled in technologies such as OpenStack, Azure, AWS, Docker, Kubernetes, and Microservices, enhancing cloud computing and containerization and contributed to open-source bug fixes and improvements in Open Stack.

### Full Stack Developer - INTERN | TATA Consultancy Services Ltd.

December 2017 – February 2018

*Java, JavaScript, AngularJS, Node.js, SQL, JSON, XML, MongoDB, React.js, GitHub*

- Contributed to a comprehensive financial data management system, including REST APIs for uploading company lists, generating unique user codes, and storing custom time series data and 55% improvement by sorting using a utility class.
- Enhanced dynamic Angular user interface that displayed components based on JSON input, improving 80% increase in user experience and data visualization capabilities.

## ASSISTANTSHIP EXPERIENCE

### Web Developer | California State University, Long Beach

October 2022 – May 2023

*Node.js, MYSQL, React.js, PHP, HTML, CSS, Bootstrap, JavaScript, jQuery, Linux*

- Designed and deployed a lightweight React and Node.js-based web application for Course Enrollment and Management, streamlining organizational tasks and boosting productivity by 25%.
- Automated payments processing using Node.js, resulting in a remarkable 90% reduction in processing time and increased program coordinator productivity.
- Conducted a comprehensive redesign of the MYSQL database schema, ensuring efficiency, clarity, and normalization for easier comprehension by new developers.

## EDUCATION

- **Master of Science in Computer Science** from **California State University, Long Beach** **January 2022 – May 2023**
- **Bachelor of Technology in Computer Science and Engineering** from **JNTU, Hyderabad** **September 2014 – May 2018**

## ACADEMIC PROJECTS

- **Classical Substitution Ciphers for Encryption and Decryption**

*Java, Java Swing, Java Abstract Window Toolkit (AWT)*

Graphical User Interface (GUI) based Application in Java for encryption and decryption of five substitution ciphers - Caesar Cipher, Mono Alphabetic Cipher, Playfair cipher, Poly Alphabetic Cipher and One Time Padding.

- **Automatic Date Generation of Vaccine for Children in Rural Areas**

*PHP, HTML, CSS, JavaScript, MYSQL, WAMP Server*

Developed web platform for MROs (Mandal Revenue Officer) to register newborns, manage rural vaccination schedules, implemented and automated age-based vaccine recommendations and send timely reminders, enhancing healthcare coordination.

## CERTIFICATIONS

- **Amazon Web Services Certified Developer - Associate** issued by *Amazon Web Services (AWS)* on August 18, 2023.
- **Oracle Certified Cloud Data Management Foundations - Associate** issued by *Oracle* on June 11, 2023.

## TECHNICAL SKILLS

**Programming Languages:** Python, Ansible, YAML, Flask, Golang, SQL, Oracle, Java, C, C++, C#, PHP, .NET, Ruby, CI/CD  
**Web Development:** HTML, CSS, REST API, JSON, XML, SPEC OPEN API, JavaScript, React.js, AngularJS, Node.js, MongoDB  
**Cloud Computing:** OpenStack, Amazon Web Services (AWS), Azure, Docker, Kubernetes, Microservices  
**Server Management and Security:** Linux, Ubuntu, SLES, Bash, Shell Scripting, IDAM, LDAP, WAMP Server  
**Version Control and DevOps:** Git, Gerrit, Jenkins

## AWARDS / ACHIEVEMENTS

- Elected as the **ASI Senator for the College of Engineering CSULB (2022-2023)**: advocated student needs and concerns.
- Promoted to **'TCS Digital Cadre' - April 2021**: Elevated for expertise and growth.
- Winner of **'Tug of Quiz'** competition at **Ericsson R&D Innovation 2020**: co-creating values and innovative designs."
- **Ericsson Cloud Recognition: 2 'Star of the Month'** and **3 'On the Spot'** awards for outstanding performance.