

# Chandrabhatta Sriram

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## PROFILE

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Professional software engineer having 2.5+ years of experience in designing, developing & shipping software products across web, desktop & command-line. My expertise includes Full-Stack Web Development, Data Structures, Algorithms, Distributed Systems & System Design. I also like to give back to the community by teaching technical courses like Programming & DSA.

## SKILLS SUMMARY

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- **Programming Languages:** javascript/typescript, html, css, python, java, c/c++ & shell-scripting.
- **Front/Back-End Frameworks:** react, redux, nodejs/express, sql & mongodb.
- **Testing Frameworks:**
  - well-versed — react-testing-library, jest, enzyme, storybook & chrome-devtools.
  - familiar-with — selenium & cucumber.
- **Development Tools:** git/github, jira & jupyter-notebooks.
- **Platform & DevOps Tools:** ansible-playbooks, github-actions & docker-containers.



## WORK EXPERIENCE

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- **Instructor** Hyderabad, India  
*Self Employed* Jan 2022 - Present
  - Instructed engineering students & took classes on *C-Programming, Data Structures & Algorithms*, and *Object Programming using Java* with a primary focus on imparting industry-ready skills to the students.
- **Software Engineer II** Hyderabad, India  
*Zessta Software Services* Jul 2021 - Present
  - Sandboxed and secured back-end compilation and runs for c, c++, c#, java, python, php & golang. This added a layer of security which does not let the user access and harm the server directly through malicious code. This feature was added using *shell scripting* & adding a controller using *nodejs/express*.
  - Designed and modelled the database for adding test-cases for different type of questions (eg. multiple-choice & coding-type). Also added **auto-evaluation** of questions against the added test-cases. Developed using *nodejs/express*, *mongodb* & *react*.
  - Added a dev-feature for automating git branching using *python*, *shell-scripting* & *powershell-scripting*.
  - Wrote a **RegEx** library for validating OCI compliant URIs, thereby decreasing the error rate of submitting an incorrect docker image URI by 50%. The library helped in detecting docker image URIs which are OCI non-compliant prior the posting of the URI to back-end.
  - Wrote a custom version auto-filler for zendesk user-support using *javascript* inside a *scala* template.
  - Used *localStorage* & *sessionStorage* APIs to persist user menu selections in a workspace session.
  - Maintain & upgrade front-end packages like *antd*, *typescript*, *lodash* using *yarn* package manager.
  - Worked on component refactor by converting them to micro-frontend components, fixed bugs and optimised API calls by decreasing API calls on component renders. These fixes sometimes increased component efficiency by 200%.
  - Took mentorship sessions for junior developers on good coding practices. Helped improve code quality by getting involved in design (back-end/ui) discussions, product discussions & code-reviews.
- **Software Engineer I** Hyderabad, India  
*Zessta Software Services* Jul 2020 - Jun 2021
  - Developed a launcher for running jobs written in *python*, *r*, *bash* & *scala* for performing analytics on data. The launcher supports data sources & external data volumes added by user. For additional compute power, compute clusters like *spark*, *ray* or *dask* can be used.
  - Upgrade front-end legacy packages viz. *typescript*, *jQuery*, *styled-components*, *axios*, etc.
  - Worked on analysing front-end auth flow, fixing name issues & cross-browser compatibility of components, fixing workspace uptime synchronisation, etc.
  - Developed a dashboard for displaying information regarding aqua-culture yield and business development employee targets. The dashboard also allows download of data to a CSV file by filtering the data through a selection of a range of dates.
- **Technical Content Writer (Internship)** Hyderabad, India  
*Smart Interviews* Feb 2018 - Sep 2018
  - Developed manuals/revision-material regarding complexity analysis where a detailed mathematical analysis of algorithms was done on the basis of **Big-O**, **Big-Θ** & **Big-Ω**.
  - Also developed & wrote manual on string manipulation/matching in which some algorithms like *Rabin Karp's* & *Knuth-Morris-Pratt's* string matching algorithms were explored/explained in-detail.

## PROJECTS

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- **GitHub Repo: Problem Solving Using Data Structures & Algorithms:** Solved Problems on Arrays, Stacks, Queues, Lists, Trees, Hashing, Heaps, Recursion, Dynamic Programming, Greedy Paradigm, Bit Manipulation & Strings. RepoLink 
- **Backend Development using NodeJS (Express), SQL & MongoDB:** Have a strong conceptual understanding of Middlewares, View Engines, Templating Engines, Routing, Data Modelling and Code Organisation using Express. RepoLink 

## EDUCATION

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- **Osmania University** Hyderabad, India  
*Bachelor of Engineering - Computer Science & Engineering* Dec 2018  
*Courses:* Mathematics, Data Structures, Analysis of Algorithms, Distributed Systems & Artificial Intelligence.