Vinod Sridhar Dalavai

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MS Computer Science student seeking *internship/co-op* opportunities for *Fall 2022*. Strong software engineer with a flair for clean and optimal code who is passionate about building large-scale systems. Eager to work with a team of motivated engineers to analyze and design and develop scalable, optimum and fault-tolerant solutions to business problems.

Education

Rochester Institute of Technology, NY

(Expected: May 2023)

Masters of Science (Computer Science) (Current GPA - 3.33/4.0)

Related Coursework: Computer Networks, Algorithms, Distributed Systems

Siddaganga Institute of Technology, India

(Aug 2008 - May 2012)

Bachelor of Engineering (GPA - 8.05/10)

Skills

Languages: Java, Python, Ruby, Javascript, HTML, CSS

Frameworks: Rails, Spring Boot, React Databases: SQL, PostgreSQL, Redis Operating Systems: Unix, Linux

Design Concepts: REST, MVC, SOLID, Object Oriented Programming, Web Services

Service Virtualization: Docker, VirtualBox

Tools: Git, Gitlab, Github, Wireshark, Postman, Grafana, Sentry, Heroku, AWS

Experience

Software Engineer - Platform Team

(Dec 2016 - May 2021)

Scripbox.com Pvt Ltd | Bangalore, India

- Developed APIs for integrating payment gateways and many more third-party APIs with Ruby on Rails.
- Owned the maintenance of Sentry. Triaged, debugged, fixed and deployed all bug fixes with same day TAT. Identified performance bottlenecks using Grafana and fixed them
- Developed a Ruby Gem (Library) that was used to communicate with other microservices.
- Designed and developed a **wrapper service** for sending over 7000 SMS, Email and Push notifications to over 1 million customers on a daily basis
- Built user authentication system based on cookies and session
- Designed and built an OTP based login for customers
- Identified need for error report generation tool and created complex SQL queries in Metabase.
 Helped reduce Operations teams' efforts for error resolution by 40%
- Built automation suite from scratch and automated customer facing web application using Selenium, Capybara, RSpec and Ruby. This saved 8 person days per month in regression testing.

Systems Engineer

(Jan 2013 - Dec 2016)

Tata Consultancy Services Ltd | United Kingdom/India

- Prepared and executed regression test scenarios and test cases of clients' web applications.
- Prepared and executed performance scripts using HP Loadrunner and analyzed test results.
- Logged test artifacts and results in JIRA.

Projects

Open Source:

(Feb 2023 - Present)

 ory/keto: Working on an issue to implement a Hybrid Logical Clock that can be used to provide Consistency Guarantees for keto on a Distributed Architecture. Using GoLang and PostgreSQL for the implementation. (https://github.com/ory/keto)

Lunar Rover: (Feb 2023 - Apr 2023)

- Developed and Implemented the RIPV2 Protocol for updating the routing tables of an arbitrary number of nodes. Implemented in Java using Socket Programming.
- Developed and implemented a Transport Layer Protocol over IP as a substitute for TCP/IP to send data between an arbitrary number of nodes. Implemented in Java using Socket Programming.

Personal Blog:

(Oct 2020 - Jan 2021)

 Built my own blog from scratch using Ruby on Rails and SQL and deployed it using Heroku. (https://www.hypocryte.monster)