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 bottleneck***s* 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)