Ramkumar Ramesh

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EDUCATION

University of Southern California   Los Angeles, United States
Master of Science in Computer Science; GPA: 3.9/4.0   *May 2021 (Expected)*
Courses: Algorithms, Data Mining, Natural language processing, Machine Learning

R V College of Engineering   Bengaluru, India
Bachelor of Engineering in Information Science; GPA: 9.15/10.0   *May 2015*
Courses: Databases, Cloud computing, Web programming, Software engineering

SKILLS

- **Languages, Software, Tools, Frameworks, and Technologies**: Ruby on Rails, React, Ruby, 15+ AWS products, Browser extensions, Django, Docker, Elasticsearch, Git, HTML, Javascript, Java, Jenkins, MySQL, Nginx, Python, Google apps script, RabbitMQ
- **Concepts and Standards**: RESTful APIs, Unit testing, Design patterns, Scalability, Distributed systems, Performance, Security, Resilient systems, Message and Job queues, CI/CD pipelines, Monitoring systems, HTTP protocol

EXPERIENCE

USC Information Sciences Institute   Los Angeles, USA
Graduate Research Assistant   *December 2019-Present*
- **Distributed Experiment Workflows**: Creating a web application using Angular and Flask to run networking experiments on multiple testbeds.

Urban Ladder (https://www.urbanladder.com)   Bengaluru, India
Senior Software Development Engineer   *April 2018-July 2019*
- **Promotion evaluation engine**: Developed a microservice to apply promotions and offers using Java bringing down processing time below 50ms.
- **Migration of production infrastructure**: Led region migration of production infrastructure from Singapore to Mumbai AWS region thereby improving performance and reducing costs by 50% and mentored an intern.
- **Query optimization**: Identified slow and N+1 queries and redesigned database structure in MySQL, improving page load times for various pages by 30%.

Software Development Engineer 2   *April 2017-March 2018*
- **Order processing improvements**: Wrote a micro-service in Ruby on Rails resulting in order processing times to plummet from several minutes to less than a second
- **Retail management**: Designed distributed systems using Ruby on Rails and React for capturing leads, feedback and attribute revenue with relevant store consultant leading to retail contributing 25% of company's revenue.

Software Development Engineer   *June 2015-March 2017*
- **Unit testing**: Trained more than 50 developers on testing with RSpec, best practices, and instilled a culture to write unit tests for all features.
- **Urban storage**: Partnered with various vendors and implemented APIs in Ruby on Rails for urban storage app contributing to 12% of company's revenue from April 2016 to March 2017.

PROJECTS

- **Open in new tab**: A Chrome and Firefox extension to open links automatically in a new tab. Currently has 3000 active users. Available at ramkumar.tech/open-in-new-tab
- **Resume builder**: A tool which enables writing customized resumes for different roles using latex.
- **Hooke**: A ruby gem to help share git hooks as part of a project. Available at github.com/ramkumar-kr/hooke

AWARDS

- **Acculade**: Urban Ladder's instant peer reward program for a job well done. Won in June 2016.
- **GDG hackathon**: Secured 2nd place in Google Developers Group hackathon at Bangalore during April 2015.
- **You Cracked it!**: Urban Ladder's highest award, given for consistently delivering beyond expectations. Won in 2017 and 2015.