

Aneel Nazareth

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Recent Experience

RetailMeNot, Austin TX, March 2014-Present

Data Science Team, August 2016-Present

Principal Software Engineer, leading a group of software engineers, data scientists, analysts, and quality engineers

Keywords: Python, Apache Spark, Databricks, Big Data, Machine Learning, Scala, AWS Elastic Map Reduce

Software Engineering

- Led a team to deliver a new content selection process for the most important pages on the RMN site, which increased clickthrough rate by 7%
 - Worked in multiple codebases in several languages: Python, Scala, SQL, Java, and PHP
 - Scoped and coordinated effort of a team of six to eight people for two quarters
 - Interfaced with other engineering teams, business analysts, content specialists, and executives
- Extended and improved a system that makes content recommendations for millions of mobile app users daily, which improved engagement by 29%
- Established good software engineering practices
 - Introduced documented development workflows, code reviews, unit and system testing
 - Transitioned fragile processes to tested workflows that include inline data validation
 - Defined explicit SLAs and documented handoff processes for data sets
- Substantially reduced the complexity of our codebase, unlocking the ability to iterate faster with more confidence
- Developed systems for producing recommendations in near-real-time, as well as through batch processes
- Reviewed architectural decisions for new and existing systems across the engineering organization

Business Impact

- Managed relationships with internal stakeholders to ensure that data flows into and out of our systems predictably
- Established responsibilities and procedures in case of production incidents
- Participated in build-vs-buy decisions for multiple technologies

Inclusion & Workplace Culture

- Served on the Diversity & Inclusion Council; participated in several Employee Resource Groups
- Developed and delivered Engineering Communication workshop ("Pull Requests Without Being a Jerk")
- Delivered unconscious bias training to engineering interviewers

Mentorship & Recruiting

- Mentored software engineers
- Represented RMN at college career fairs, delivered tech talks about RMN's research
- Conducted more than 50 on-campus and 100 on-site interviews for college and industry candidates
- Helped develop behavioral and technical interview processes

Core Business Team, March 2014-August 2016

Staff Software Engineer, led RetailMeNot's Core Business Algorithms team

Keywords: Python, MongoDB, RabbitMQ, AWS, Docker, MySQL, PHP

Software Development

- Designed system to decide which coupons were eligible to be shown. Brought together data from disparate sources for efficient processing of millions of coupons for tens of thousands of merchants every half hour

Production Support

- Diagnosed, triaged, and fixed urgent problems in multiple codebases
- Managed Amazon Web Services resources, including EC2 servers and RDS databases
- Responded to malicious traffic by determining the source and blocking at the application or CDN level if appropriate

Data For Democracy, Feb 2017-Present

- Helps data scientists use their skills for social good
- Provides expertise in Docker, databases, and software engineering to help teams work effectively together
- Worked on a team that produced a [system to analyze news articles](#) for mentions of people being displaced by disaster or conflict
 - Won a [United Nations Unite Ideas](#) competition sponsored by the [Internal Displacement Monitoring Center](#)
 - Presented our solution at the UN in Geneva
 - Consulted on further development and provided ongoing support

Selected Other Experience

Independent Software Development, 2009-2014

Designed, coded, and released iOS and MacOS X applications

Keywords: Swift, Cocoa Touch, iOS, Core Data, MacOS X

Shockwave.com, San Francisco CA, 2005-2009

Created backend for multiplayer gaming and chat. Games included poker, billiards, and real-time 3D naval combat

Keywords: Java, Python, Networking, Service Discovery

Spinner.com, San Francisco CA, 1999-2000, 2002-2004

Developed server software for Internet radio. Managed large cluster of servers. Created system for service monitoring

Keywords: Java, Perl, Streaming Music, RRD, System Administration, Linux, Solaris

Education

Massachusetts Institute of Technology, Cambridge MA, 1994-1998

Bachelor of Science degree in Mathematics with Computer Science (18C)

Work/Life Balance

Geometric Art

Projects animations on the surface of a [purpose-built geodesic dome](#) using Processing: [Github](#), [Instructables](#)

Travel

Visited over 50 Countries and 45 States: 10,000mi by car from London to Mongolia, 30,000mi by motorcycle around the US, Canada, and Mexico. Explores mapping, data collection, and location technologies