

Aditya Raghavan

adityaraghavan.com | araghavan3@gmail.com | github.com/araghava | twitter.com/d5ter

Skills C++, C, JavaScript, Java, Python, SQL, Bash

Experience **Quora**, Software Engineering Intern | Present

- Working on the machine learning systems and infrastructure behind Quora's homepage feed, digest emails, and ask to answer features.
- Leading a project to redesign the homepage feed storage infrastructure.
- Adding collaborative filtering functionality in the ask to answer ranking backend.

Quora, Software Engineering Intern | Mountain View, CA (Fall '15)

- Worked on Quora's machine learning / ranking systems.
- Parallelized the ask to answer C++ backend, resulting in a 50% speed improvement.
- Worked on and migrated to an in-house C++ data aggregation engine. This was 10x faster than the previous system, saved \$60k+/year, and can scale to 20x more data.

Side Effects Software, 3D Software Developer | Toronto, ON (Winter '15)

- Worked on Houdini, a C++ visual effects tool extensively used in films and video games.
- Implemented raytraced UV rendering (texture baking) in Houdini's rendering engine.
- Extended support for Alembic, a standardized format to store geometry & animation data.

Minted, Software Engineering Intern | San Francisco, CA (Spring '14)

- Worked on new rendering techniques in Minted's in-browser image editor which reduced latency from seconds to hundreds of milliseconds.
- Fully owned and implemented a number of features across the entire web stack.
- Handled live-site issues for a week as the on-call engineer.

Inkling, Software Engineering Intern | San Francisco, CA (Fall '13)

- Client and server side web engineer at Inkling's online store <http://inkling.com/shop>.
- Worked on "Inkling for Web", an interactive HTML5 e-book reader.

Sunnybrook Focused Ultrasound Lab, Research Assistant | Toronto, ON (Spring '11, 12)

- Used LabVIEW to program a 3-axis positioning system.
- Wrote software with MATLAB to analyze multivariate data from simulations of treatments.

Projects Raytracer <http://github.com/araghava/raytracer>
3D game engine (co-author) <http://github.com/jtmzheng/3dss>
Half-fit dynamic memory allocator

Education **University of Waterloo**, B.ASc. Mechatronics Engineering '2017

- Relevant courses: real time OS, data structures and algorithms, numerical methods, finite element analysis, introduction to microprocessors, microprocessor interfacing

Interests TopCoder & CodeForces programming contests (handle: **araghavan3**).
Rock climbing and ping-pong.