

# Om Kelkar

Software Engineer based in New York, NY

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## Experience

### Meta Platforms, Distributed Tracing

November 2021 - Present

SOFTWARE ENGINEER

New York, NY

- Newly joined and excited to have an impact on a critical system.

### Microsoft Corporation, Personal Insights

August 2018 - October 2021

SOFTWARE ENGINEER

Redmond, WA

- Project lead for the dynamic landing page for Viva Insights in Teams, packaging existing insights into one-click solutions to increase user engagement and 'stickiness'.
- Delivered critical update to the licensing API, which prevented the in-the-flow service from affecting Teams web app, Outlook add-in, and email services. Reduced overall service downtime by 40%.
- Implemented an in-the-flow to-dos actionable message that added 15 million monthly clicks.
- Built a PowerBI dashboard to monitor health of the in-the-flow service, preventing two major bugs escaping into production.
- Accessibility champion for Viva Insights in Teams, leveraging best practices of ARIA, color contrast, and mobile responsiveness.
- Highly sought after code reviewer by peers and technical leads.

### Microsoft Corporation, Personal Insights

May 2017 - August 2017

SOFTWARE ENGINEERING INTERN

Redmond, WA

- Developed a new insight in the Outlook add-in to notify users about their attendees' meeting-preparedness based on attachment read signals.
- Augmented existing email read statistics experience with above attachment data.

### Sandia National Laboratories

May 2016 - August 2016

SOFTWARE ENGINEERING RESEARCH INTERN

Livermore, CA

- Created an Python-to-C interface between C++ in-house fluid flow solver and popular Python machine learning frameworks.
- Updated in-house documentation and sample scripts, which enabled research scientists to immediately connect existing models.

## Education

### Carnegie Mellon University

Pittsburgh, PA

B.S. COMPUTER ENGINEERING, ADDITIONAL MAJOR IN BIOMEDICAL ENGINEERING, UNIVERSITY HONORS 3.71/4.0

Aug 2014 - May 2018

## Projects and Teaching

### Supplemental Instruction / EXCEL Program

Pittsburgh, PA

STUDENT SUPERVISOR, STUDENT TEACHER

August 2016 - May 2018

- Managed 30 student teachers by providing ongoing enrichment, hosted teaching seminars on the seven learning styles, hands-on problem solving, and reinforcing first principles. Their work had a positive impact on over 500 students each year.
- Taught 15 students each semester for Signals & Systems and Digital Systems coursework.
- Served as webmaster for sign-up and bookings application.

### MedBot-Home

Pittsburgh, PA

DEVELOPER

May 2017

- Designed an automatic medication dispenser for in-home patient care use. Wired 6-servo controller to Raspberry Pi.
- Built a web application using Python Flask framework to allow caretakers to remotely update list of medications and dosages.

### Lock-free Priority Queue

Pittsburgh, PA

DEVELOPER

May 2017

- Implemented a skiplist-based priority queue in C++, leveraging a lock-free paradigm to support concurrency, resulting in 2x speedup over traditional fine-grained locking approaches in insert heavy loads.
- Designed a dirty pointers scheme to handle conflicting insert and deletion operations to preserve accuracy.
- Developed a test harness in C++ and an insert/delete trace generator in Python to assess performance.

## Skills

**Computer Languages:** TypeScript, CSS, HTML, Python, C++, C-sharp, C, SQL, SML

**Technologies:** ReactJS, OData, FluentUI, Git, Bash, Powershell, ARIA