

# Aishwarya Ramanathan

GCP Technical Solutions Engineer at Google Cloud Canada

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 [aishr.github.io](https://github.com/aishr)

 [aishr](#)

 [aishwaryaramanathan](#)

## – Education –

- 2019–2021 Masters Student, MMath  
David Cheriton School of Computer Science, **University of Waterloo**, Ontario, Canada  
Supervisors: Richard Trefler & Arie Gurfinkel
- 2014–2019 Undergraduate Student, HBSc.  
Mathematics, Computer Science & Statistics Department, **University of Toronto**, Ontario, Canada  
Specialist in Computer Science & Minor in Mathematics

## – Experience –

- Sep 2021– Technical Solutions Engineer - **Google Cloud Canada**  
- Manage customer issues through effective diagnosis, resolution, or implementation of new investigation tools  
- Develop an in-depth understanding of Google's product technology and underlying architectures  
- Understand customer issues and advocate for their needs with cross-functional teams, including product and engineering teams
- Sep 2016–Sep 2021 Computer Science & Mathematics Teaching Assistant  
**University of Toronto & University Of Waterloo**
- May 2017–Aug 2018 Full Stack Developer Intern - **Indigo Books & Music**  
Projects include Competitive Pricing, Catalog Cloud Migration (CCM) & Cloud Pricing Dashboard (CPD)  
- CCM: Developed an internal system to programatically populate cloud based catalog with on premise catalog entries; Team based project utilizing agile methodologies (Scrum)  
CPD: Summarized Azure Cloud Pricing into an internal dashboard for easy cost viewing and analysis

## – Publications –

- ▷ Masters Thesis: [Hubble Spacer Telescope](#) (C#, Python, ReactJS) [[FE Source](#)] [[BE Source](#)] [[Prose Source](#)]
  - ▷ Allows a user to view SPACER's exploration tree of potentials proofs and counterexamples
  - ▷ Smart editing using **Microsoft Prose' Program Synthesis Framework**
  - ▷ Developed a custom domain specific language for Prose to synthesize programs with
- ▷ Zehra, S., Ramanathan, A., Zhang, L. Y., and Zingaro, D. Student Misconceptions of Dynamic Programming. In Proceedings of the 49th ACM Technical Symposium on Computer Science Education (SIGCSE '18). [Link](#)
  - ▷ Identifies and analyzes why students have trouble learning the dynamic programming algorithm
  - ▷ Research process included interviewing multiple students while recording their responses for analysis

## – Personal Projects –

### Website [[Source](#)] [[Site](#)]

- ▷ Experimentation project to learn React JS
- ▷ Includes single page app routing for github pages compatibility
- ▷ GIFs included to showcase personal projects

### Browser Landing Page/Startpage [[Source](#)] [[Site](#)]

- ▷ Originally written in HTML/CSS/JS, revisions in react, vue, and angular
- ▷ OSX styled shortcut dock with keyboard shortcuts for quickly accessing frequently used websites
- ▷ Search bar that handles keyboard shortcuts as well as general search

### Spacer Dashboard (ReactJS, d3) [[Source](#)]

- ▷ Developed a visualization system for a variety of benchmarks for the model checking program, Spacer
- ▷ Includes different views for select metrics (ex. time, memory, num of lemmas, etc.)