

Aishwarya Ramanathan

GCP Technical Solutions Engineer at Google Cloud Canada

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– Experience –

- Sep 2021– Technical Solutions Engineer - **Google Cloud Canada**
- Manage customer issues through effective diagnosis, resolution, or implementation of new investigation tools
 - Specialized in a variety of serverless products including App Engine, Cloud Run, Cloud Functions, Cloud Build, and Firebase Suite
 - Develop an in-depth understanding of Google's product technology and underlying architectures
 - Assess 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: Built an internal system in C# to programatically populate cloud based noSQL (Azure Tables) catalog using Azure Message Bus Pub/Sub topics and subscriptions with on premise SQL catalog entries; Team based project utilizing agile methodologies (Scrum)
 - CPD: Introduced Azure Cloud Pricing into an internal dashboard, made with React Visual Libraries and Azure Consumption APIs for C#, for easy cost viewing and analysis.

– Personal Projects –

Spelling Bee [Source] [Site]

- ▷ Written in Rust and powered by a Github Action that runs each night to produce a unique puzzle every day.
- ▷ Frontend, written in Angular, is designed to be mobile first to provide an app-like experience.

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.)

– 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**
 - ▷ Created 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

– Education –

2019–2021

Masters, MMath in Computer Science, **University of Waterloo**; Supervisors: R. Trefler & A. Gurfinkel

2014–2019

Bachelors, HBSoc. in Computer Science and Math, **University of Toronto**