

GCP Technical Solutions Engineer at Google Cloud Canada

 aishwaryaramanathan

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 Firestore, 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.

Spelling Bee [\[Source\]](#) [\[Site\]](#)

- ▷ Experimentation project to learn Angular and Rust
- ▷ Formatted for a mobile browser
- ▷ Github Actions produces a brand new set of letters each day

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.)

► 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

2019–2021

Masters, MMath in Computer Science, **University of Waterloo**; Supervisors: R. Trefler & A. Gurfinkel
Bachelors, HBSc. in Computer Science and Math, **University of Toronto**