Aishwarya Ramanathan

Masters Student in Computer Science at the University of Waterloo

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aishram

Education –

2019– Masters Student, MMath

Department 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 2016– 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

CPD: Summarized Azure Cloud Pricing into an internal dashboard for easy cost viewing and analysis

Publications -

- ▶ Identifies and analyzes why students have trouble learning the dynamic programming algorithm
- > Research process included interviewing multiple students while recording their responses for analysis

- Masters Research Projects -

Spacer Visualizer + Prose Backend (C#, Python, ReactJS) [FE Source] [BE Source] [Prose Source]

- ▷ Allows a user to view SPACER's exploration tree of potentials proofs and counterexamples
- Developed a custom domain specific language for Prose to synthesize programs with

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.)

- Personal Projects -

Website [Source] [Site]

- ▷ Includes single page app routing for github pages compatability
- □ GIFs included to showcase personal projects

Browser Landing Page/Startpage [Source] [Site]

- OSX styled shortcut dock with keyboard shortcuts for quickly accessing frequently used websites
- Search bar that handles keyboard shortcuts as well as general search terms