Aayush Shah

2B Computer Science · University of Waterloo

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Skills

- **Programming:** C++ · Python · JavaScript · Scheme · Bash · SQL
- **Tools and Frameworks:** Node.js · PostgreSQL · Backbone.js · Angular.js · MongoDB · Git

Experience

- **Yahoo!** Sunnyvale, California
  Incoming Software Engineering Intern *May 2017 - Aug 2017*
- **Hubdoc** Toronto, Ontario
  Software Developer Intern *Aug 2016 - Dec 2016*
  - Developed an **analytics dashboard** with **Express** and **Backbone** to visualize growth and bug metrics
  - Optimized PostgreSQL schema to reduce load and efficiently query multi-million row data collection
  - Reduced API response times from **9 to 4 seconds** by migrating metrics data to the new schema
  - Built and maintained 100+ web scrapers that fetched client documents from various vendors
  - Primarily worked with: Node.js, Backbone.js, PostgreSQL and Git

Projects

- **Raytracer** · *C++* *goo.gl/FYlt4c*
  - A 3D rendering engine using the raytracing technique
  - Implemented diffuse lighting, anti-aliasing and shadows
  - Sample rendered images: **goo.gl/SKHwoM**
- **Fittr** · *Node.js, MongoDB* · HackHarvard 2016 *goo.gl/q0GrpP*
  - An iOS application to help people find ideal gym partners
  - Wrote the backend API and generated recommendations for partners based on weight and proximity
- **Chamber Crawler 3000** · *C++* *goo.gl/OeUrxw*
  - A Rogue-like RPG game
  - Implemented a 4 way flood fill algorithm to generate custom in-game maps
- **Genie** · *Node.js, Simple-git API* *goo.gl/j0jVe2*
  - A command line interface for performing complex git tasks with minimum commands

Activities

- **Blue** rated competitor on TopCoder algorithm contests, among **top 20%** globally
- **Top 13%** globally on HackerRank's rated contests, **top 10%** on LeetCode's weekly contests

Education

- **University of Waterloo** Waterloo, Ontario
  Bachelor of Computer Science · 2nd Year *Sept 2015 - May 2020*
  - Major GPA: **3.8/4.0** · Dean's Honours List (Spring 2016)
  - Coursework: Data Structures, Compilers, Graph Theory, Optimization, Functional Programming