SEHAJ GUPTA

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SKILLS

C++, C, Racket (Functional), Bash, WebDev, MySQL, Jira, Hadoop, UML

PROJECTS

CC3K | Game based on Dungeons and Dragons / Rogue
  - Worked on a team of three as a final project for OOP course.
  - Made in C++ from scratch using the STL and key design patterns.

Lights Out | Retro game implemented in C++
  - Players objective is to turn off all the lights on an n*n grid, where toggling a light toggles four of its neighbouring lights. Used the observer design pattern.

2048 Web-app UWaterloo Edition | The classic game with a twist
  - Instead of doubling the numbers, the game cycles through the life cycle of geese. Made with JS and CSS.

Food Finder | Hunger buster between or after classes
  - Racket app to list suitable food locations, time to reach, and directions using Google Maps and UWaterloo APIs

BlueSMS PathFinder | Navigate UMichigan with ease
  - Web-app to help with navigating the huge UMichigan, Ann Arbor campus using complex bus system. Made with a team in MHacks 2016.

EXPERIENCE

Wipro | Data Science Intern (June 2016 - Aug 2016 | India)
  - Shadowed the Decision Analytics & Real Time Strategy project team on Airtel Campus, Biggest Telecom company with over 300M subscribers
  - Learnt Hadoop, MapReduce, JIRA, Hive and Ab-Initio.
  - Installed a single-node Hadoop cluster and played around with it.
  - Stored and analyzed over 7TB/data of metadata accumulated under the team.

Honeywell Automation | Trainee (June 2015 | India)
  - Trained on deployment and maintenance of Surveillance features in Smart cities.

AWARDS

- Microsoft Tuition scholarship awarded in recognition of demonstrated passion for tech, academic excellence and leadership in 2017.
- The University of Waterloo President's Scholarship of Distinction awarded to students with admission average above 95% in 2016.

EDUCATION

University Of Waterloo – Bachelors in CS Co-op, Expected Grad. May 2021

COURSEWORK

Object-Oriented Software Development, Algorithm Design and Data Abstraction, Designing Functional Programs, Elementary Number and Set Theory, Probability, Physics

VOLUNTEERING

Economic Liberation Foundation | Teacher (2015 | India)
- Undertook initiative to teach students essential computer skills and created the coursework.
- Organized a week long economics workshop. Invited a post-graduate student from the Gokhale Institute of Politics and Economics, Pune to familiarize the children with concepts like Principles of Economics and Vedic Maths