

Saswata Gupta

1 B S O F T W A R E E N G I N E E R I N G

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Email

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Website

sgupta.me



GitHub

github.com/sas5580

skills

Languages

- C / C++ / C#
- Python
- JavaScript
- HTML / CSS
- Java
- SQL
- GLSL

Platforms and Tools

- MongoDB
- Arduino
- Git
- Linux
- Shell
- Android

Libraries

- jQuery
- NodeJS
- Flask
- OpenGL
- PIL
- PyMongo

projects

OpenGL Physics Simulator

Graphically integrated sandbox

2016-2017

C | C++ | OpenGL | SDL

- Implemented a purely Object-Oriented design with various classes functioning in conjunction.
- Designed a responsive program to function effectively on any machine

Quest Cabochon

Web Browser Role Playing Game

2016

JavaScript | NodeJs | Phaser

- Utilized NodeJs and SocketIO to support real-time multiplayer gameplay.
- Designed a friendly UI and UX for a smooth transition into the game and its features
- Implemented an efficient path finding algorithm to determine movements of certain entities

LIBestimate

Android app with Estimate beacons

2015-2016

Java | XML | Estimate API

- Designed and implemented a fully functioning library system including login, book search and book checkout
- Utilized Estimate beacons to triangulate user's locations and direct them to certain areas in the library

experience

Multiple Hackathons

2016

- Demonstrated collaboration, creativity and time management when creating projects to demo to judges
- *Hackathons: PennApps, HackWestern, MasseyHacks*

Marking Assistant | Kumon

2015-2016

- Demonstrated diligence with consistent large workload
- Delivered feedback to students based on their performance

Warehouse Volunteer at Habitat for Humanity

2015

- Formulated plans for product placement in the warehouse
- Managed team of volunteers to effectively organize products

awards

Bronze Medalist at Canadian Computing Olympiad

2015

The top 25 scores from the Canadian Computing Competition are invited to participate in the CCO

Euclid Math Contest Entrance Scholarship

2016

Awarded for placing in the top 10% in the 2016 Euclid Math Contest hosted by the CEMC

Magna Family Scholarship

2016

A scholarship worth \$3000 per year awarded for excellency in academics and showing involvement in the community

education

University of Waterloo

2016-2021

Honors Software Engineering Co-op

Candidate for Bachelors of Software Engineering