VARUN GUPTA

1B SOFTWARE ENGINEERING | STUDENT ID#: 20617394

☑ varun.gupta@uwaterloo.ca ② vari.github.io 🦶 519-722-2488 🕥 vari

SUMMARY

- Proficient in Java, C/C++, and VB.NET, including data structures, testing, and debugging code (via courses and projects).
- Mobile development experience via an independent Android game (published on the Play store).
- Five years of computer repair and troubleshooting experience.
- Excellent Microsoft Office skills (Excel, Word, PowerPoint).
- Strong communication, time management, and teamwork skills developed through volunteering and extracurricular activities.
- Motivated, versatile, and enthusiastic programmer.

PROIECTS

The Flying Stickman (Android / Java) | Jun 2015 - Jan 2016

- A fly-and-shoot game optimized for different screen sizes and resolutions.
- Used OOP principles to model game entities and behaviours such as enemies, projectiles, and health.
- Debugged any bugs found through user testing via the Eclipse debugger after each update.
- Published on the Play store (with developer name A13).

Geese Invaders (C) | Oct 2015 - Nov 2015

- Collaborated with 4 colleagues to make a space invaders game for the Tiva C LaunchPad microcontroller using Energia (Embedded C IDE).
- Implemented data structures to keep track of bullets and geese, and utilized them to perform collision testing and game loop updates.
- Utilized sensors such as a potentiometer and an accelerometer to control gun position, speed, and other game elements.

Blackjack (VB.NET) | May 2014 - Jun 2014

- One player blackjack game with dealer AI and custom bets.
- Dealer AI conforms to blackjack rules using extensive decision structures and runtime variable values (i.e. the cards dealt).
- Robust design can handle invalid user input.

Concentration (VB.NET) | Apr 2014 - May 2014

- Two player concentration game with up to 15 cards.
- Options for player names and number of cards each round.
- Implemented Complex algorithms to generate VB
 PictureBox objects dynamically each round, display
 random cards with no repeats, and parse player-selected
 cards for match testing.

SKILLS

PROFICIENT IN: Java, C, C++, VB.NET **FAMILIAR WITH:** HTML, PHP, CSS, SQL

TOOLS: Visual Studio, Eclipse (Java), Eclipse CDT (C/C++), GitHub (Git), Energia IDE (Embedded C), Photoshop

ADDITIONAL EXPERIENCE

Shivom Computer and Graphics

2010 to 2015

Computer Technician

Responsibilities:

• Attend to service calls, diagnose and repair customer devices, provide customer support.

Achievements:

- · Quickly grasped troubleshooting procedures.
- Diagnosed and replaced hardware such as LCD screens, DC jacks, and motherboards.
- Resolved software issues (Windows, OSX) such as BSODs, kernel panics, and networking issues.
- Developed strong communication skills by attending to customer concerns and needs.

IBT Team (Gordon Graydon Memorial SS 2014 to **Club)** 2015

Web & Tech Manager

 Collaborated with two colleagues to add, update, remove events, news items, and other content on the IBT website (using HTML, CSS, and PHP).

AWARDS

Governor General's Bronze Medal

Oct 2015

Governor General of Canada

Ontario's Top Scholar List - 97.7% overall grade 12 average.

Honour Roll in Canadian Computing Contest

Feb 2015

University of Waterloo

Strong problem solving skills in programming challenges.

EDUCATION

University of Waterloo

Candidate for Bachelor of Software Engineering 2020 First Term (1A) average: 93%. Currently learning encapsulation, abstract data types, stacks, linked lists, and memory models.