# GOWTAM KRISHNAN GARAPATI

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## LANGUAGES

- Java
- Python
- C
- C++
- HTML/CSS
- JavaScript
- RISCV(assembly)
- SQL

## TOOLS

- Git/GitHub
- React
- AWS

## FRAMEWORKS

- MySQL
- Jawa AWT/Swing
- Route 53
- AWS S3

## OPERATING SYSTEMS

- Windows
- MacOS
- Android

## EDUCATION

**SIMON FRASER UNIVERSITY**

Burnaby, BC

Bachelor of Computing Science
Fall 2021- Present

## PERSONAL PROJECTS

### SUDOKU SOLVER                                         *DEC 2023 – JAN 2024*

- Developed a PC game using python and Pygame to Solve sudoku problems.
- Implemented a backtracking algorithm using GeeksforGeeks to make the game functional by solving the puzzle line-by-line.
- Designed intuitive user interactions enabling puzzle input, real-time solving visualization, and display of completed solutions.
- The result was a functional and visually engaging Sudoku solver, demonstrating strong problem-solving and programming skills.

### PERSONAL PORTFOLIO WEBSITE                            *OCT – NOV 2023*

- Designed and developed an interactive personal portfolio webpage using HTML and GitHub pages, agile development methodology, resulting in a professional-looking webpage with beautiful animations and effects.
- Established a contact functionality enabling users to reach out directly, with requests forwarded by email and this was incorporated email forwarding, which enhanced the website's user engagement and communication capabilities.

### PROFESSIONAL COMPANY WEBSITE                          *SEP – NOV 2023*

*https://enviropackuae.com/*

- Developed a dynamic and visually appealing website for an eco-friendly cutlery company using HTML, CSS, and JavaScript.
- Employed HTML and CSS to structure and style the website, by ensuring a seamless and intuitive navigation experience for users, resulting in a professionally crafted website.
- Leveraged JavaScript to enhance user interaction on Enviro Pack's site, implementing smooth scrolling, a cart system, and engaging animations, significantly improving the user experience and interactivity.
- The result was a professional website that was hosted using AWS's S3 framework and its domain name was from Route 53, this allowed a seamless hosting without any issues.

### INTERACTIVE WEATHER APPLICATION                       *NOV – DEC 2023*

- Implemented an intuitive user interface for a weather application using HTML, CSS, and JavaScript, which enabled the users to easily interact with the application, enhancing user experience and engagement.
- Integrated the application with the Open Weather API , allowing real-time retrieval of weather data based on user input, which ensured accurate and current weather information was displayed.
- Added dynamic content rendering and input validation in JavaScript, which improved the application's reliability and user experience by handling empty inputs and invalid city names gracefully.
- Optimized data handling in JavaScript to fetch and display relevant weather details, including temperature, weather conditions, and icons, which made the application informative and visually appealing.

# GOWTAM KRISHNAN GARAPATI

## SOFT SKILLS

- Excellent Communication
- Team Management
- Problem Solving
- Critical Thinking
- Leadership
- Active Listening
- Professionalism

## ONLINE COURSES

The Complete Web Development Bootcamp in Udemy in 2023

## SPOKEN LANGUAGES

- English
- Telugu
- Hindi

## HOBBIES

- Music
- Reading
- Football
- Cricket

## ACADEMIC PROJECTS

**PIXEL PIONEERS**                                                      *SEP – DEC 2023*

*CMPT 276 (Intro to Software Engineering), SFU*

- Worked with two peers to create a Java 2D space adventure game, inspired by Pacman. This collaboration enhanced our team skills and demonstrated the ability to merge diverse ideas into a cohesive product.

- Implemented Java's AWT and Swing frameworks to deliver a compelling user experience, ensuring the game was not only functional but also engaging for players.

- Devised a well-defined class hierarchy as the game's architectural foundation, which streamlined development and maintenance processes, providing a robust structure for the game's functionality.

- Integrated the A* algorithm for optimizing enemy movement, making the gameplay challenging and intellectually stimulating for players.

- Conducted comprehensive unit and integration tests, reinforcing the game's stability and reliability, thus ensuring a seamless and enjoyable gaming experience for users.

## VOLUNTEER EXPERIENCES

**PEER EDUCATOR**                                                      *MAY – JUL 2023*

- Tutored students in my neighbourhood by doing a 1-1 session and cleared doubts on subjects such as calculus, statistics and intro to java programming with demonstrated excellence.
- Provided helpful feedback and mentorship on assignments and practice questions.
- Collaborated with other students to host workshops that created study groups, which helped lots of students.

**OLD NEWSPAPER COLLECTION DRIVE**                          *OCT – NOV 2022*

*Emirates Environmental Group, United Arab Emirates*

- Successfully initiated and led a one-month newspaper collection drive, gathering an impressive 300 kgs of newspapers for recycling.
- Collaborated with local businesses and organizations to set up convenient collection points, maximizing participation and ensuring efficient gathering of newspapers.
- Facilitated the transformation of collected newspapers into eco-friendly products such as pen covers and notebooks, demonstrating a commitment to circular economy practices.
- Showcased leadership and organizational skills by mobilizing community participation, fostering a sense of environmental responsibility and community engagement.