




# AKHIL SUDHAKARAN

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 [akhilsudh.github.io](https://akhilsudh.github.io)

## Skills / Highlights

- C/C++
- Java(Android App Development)
- Python
- Basics of CUDA Programming
- HTML/CSS/JS
- Unix / Windows
- VCS (git)
- Docker

## Education

- **Bachelor of Computer Science and Engineering**  
*Sir M. Visvesvaraya Institute of Technology*  
Scored **80.50%** (average of 7 semesters)  
Electives:
  - Pattern Recognition
  - Artificial Intelligence
  - Java & J2EE

**On going**  
Bangalore, Karnataka
- **CBSE 12<sup>th</sup> Std**  
*CMR National Public School*  
Scored: **93.20%**

**2014**  
Bangalore, Karnataka
- **ICSE 10<sup>th</sup> Std**  
*St. John's High School*  
Scored: **90.57%**

**2012**  
Bangalore, Karnataka

## Projects

- **Easy Bluetooth**  
*Platform: Android*  
Developed an Android app that helps in smartly connecting to A2DP Bluetooth devices without interacting with the phone. Smartly selects which device to connect to when multiple devices are on, depending on the user's preference. – <https://github.com/Akhilsudh/EasyBluetooth>
- **Easy Bluetooth**  
*Platform: Android*  
Developed an Android app that helps in smartly connecting to A2DP Bluetooth devices without interacting with the phone. Smartly selects which device to connect to when multiple devices are on, depending on the user's preference. – <https://github.com/Akhilsudh/EasyBluetooth>
- **Circular-Reveal-Animation Android Library**  
*Platform: Android*  
Developed an Android library for animated transition from one activity to another using a neat circular reveal animation. – <https://github.com/Akhilsudh/Circular-Animation-Reveal-Example-Library>
- **Twitr-Traffic**  
*Platform: Multiplatform Web-App*  
A Python Flask web-app that scans through Twitter and searches for tweets regarding road traffic in a particular city, in a particular route mentioned by the user and gives real-time updates on traffic conditions and also gives statistical results in the form of graphs. – <https://github.com/TwitrTraffic>

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- **Javascript Based Games**

*Platform: Multiplatform through JS*

Made several multiplatform games entirely on JS:

1. **Ball-Escape** - A flappy bird clone written in Javascript. This game uses new features provided by HTML5 and drawing features provided by the p5.js library – <https://github.com/Akhilsudh/BallEscape>
2. **Tic-Tac-Toe Minimal** - A node-js based 1v1 multiplayer tic-tac-toe game using express.js and socket.io to manage connections. – <https://github.com/Akhilsudh/Tic-Tac-Toe-Minimal>
3. **Common-Canvas** - A fun nodeJS based website that creates a common canvas for different people to draw on, when connected together. – <https://github.com/Akhilsudh/Common-Canvas>

- **Custom-Draggable-Listview Android Library**

*Platform: Android*

Developed an Android library for creating custom dynamic draggable list view, that helps in rearranging elements of the list by dragging them over other items in the list, enhancing UX in handling items in a list

- **OpenGL Wrap-Around-Minesweeper**

*Platform: Linux | Windows | Mac OSX*

*Library: OpenGL*

This project demonstrates a simple game of Mine-Sweeper, with an extra feature called wraparound where actions on the edges of a minefield are reflected on the opposite edge giving a more complex puzzle.

<https://github.com/Akhilsudh/MineSweeper-CG-Project>

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## Experience

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### Software and Web Developer at notNULL

**11/2015 to 05/2016**

Bangalore, Karnataka

- Was part of the website development team
- Developed REST APIs in NodeJS for their services
- Technologies used:  
HTML, Bootstrap, JavaScript, CSS, NodeJS and MongoDB

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## Publications & Achievements

- **A Novel Double Backtracking Approach to the N-Queens Problem in Three Dimensions :**  
Published a research paper titled "A Novel Double Backtracking Approach to the N-Queens Problem in Three Dimensions" in the International Journal of Computer Applications. Click [\[here\]](#) for the paper.
- **Tata Trusts & Google India Android-Developer-Nanodegree Scholarship**  
Received one among the **1000** scholarships provided by Tata Trusts & Google India for Udacity's Android Developer Nanodegree program.
- **One among the Best Five DBMS Lab Projects in Sir M. Visvesvaraya Institute of Technology :**  
"Twitr-Traffic" was selected as one among the "Best Five" projects in Database Applications lab during the academic year 2016-2017. Click [\[here\]](#) for the certificate.
- **Top 10 of St. John's High School Students in the ICSE 2012 :**  
One among the **top 10 students** of St. Johns High School in the **grade 10 (ICSE) board Exams 2012**, Securing **90.7%**. Click [\[here\]](#) for the certificate.

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## Extracurricular Activities

- **Hackathons** - Participated in several Hackathons (HackIndia 2015, Myntra Hack 2016 & AngelHack 2016). Developed Android Apps, Aureader, Myntra-Shopping-Simplifeid and Twittraffic.
  - **Mozilla-Firefox student ambassador** - gave workshop sessions on Open source contribution and introduction to software version control using git to the students.
  - **Chief Designer of my College Magazine** - Designed the 2017 issue of our departmental Magazine called "Ganak-Patra". Was responsible for the designing as well as editing a set of articles.
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