

ADITYA MITRA

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[adityamitra5102.github.io](https://github.com/adityamitra5102)

Experienced in Java, Raspberry Pi, Arduino. My hobby is prototyping consumer devices and developing solutions to various problems. Interested in IoT, AI/ML and Robotics.

EXPERIENCE

MAY 2021 – PRESENT

JOINT TECH LEAD, DSC VIT-AP

OCTOBER 2020 – PRESENT

TECH LEAD, ANDROID CLUB VIT-AP

APRIL 2018 – APRIL 2020

STUDENT AMBASSADOR, ATAL TINKERING LAB, SALT LAKE SCHOOL

Led a team of about twenty students and organized 2 successful workshops per year (4 workshops in 2 years) to foster the importance of STEM (Science, Technology, Engineering, Mathematics) learning in my fellow classmates, my juniors, the students from other schools.

EDUCATION

APRIL 2024

B. TECH, COMPUTER SCIENCE AND ENGINEERING, VIT-AP

APRIL 2020

+2 LEVEL, SALT LAKE SCHOOL

AGGREGATE: 89.75%

English: 83%

Physics: 86%

Chemistry: 73%

Mathematics: 90%

Computer Science: 100%

SUPW and Community Service: Grade A

SKILLS

- Object Oriented Programming
- Java
 - Core Java, Servlets
- Arduino
- Bash
- Git
- Leadership
- CUDA Parallel Computing
- C Language
- C++
- Python
- Raspberry Pi
- Linux
- Microsoft Azure
- Project Management
- Technical Documentation

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Fundamentals of Accelerated Computing with CUDA C/C++, NVIDIA
- Fundamentals of Accelerated Computing with CUDA Python, NVIDIA
- Microsoft Technology Associate: Programming with Java
- Oracle Certified Associate, Java SE 8 Programmer
- CLA – C Certified Associate Programmer, C++ Institute

IMPORTANT COURSES/ASSESSMENTS COMPLETED

- Introduction to IoT, Cisco Networking Academy
- Getting Started with AI on Jetson Nano, NVIDIA
- Getting Started with DeepStream for Video Analytics on Jetson Nano, NVIDIA
- Serverless Cloud Computing – NASSCOM FutureSkills
- MATLAB Onramp, MathWorks
- Object Oriented Programming in Java, University of California, San Diego, Coursera
- Technical Support Fundamentals, Google, Coursera
- Perform Foundational Infrastructure Tasks in Google Cloud, Qwiklabs
- Set Up and Configure a Cloud Environment in Google Cloud, Qwiklabs
- Google Cloud Platform Baseline: Infrastructure, Qwiklabs
- Google Cloud – Create and Manage Cloud Resources, Qwiklabs
- Google Cloud Essentials, Qwiklabs
- C# Basic, HackerRank
- Java (Basic) Certificate, HackerRank
- Problem Solving (Basic), HackerRank
- Java, Testdome automated skill testing
- Professional - Level 1 in Core Java, RankSheet Online Services

PROJECTS

LOCK PC FILE WITH PHONE

Program to lock sensitive files on the computer. The files will be unlocked only when the user connects his android device. Here, the android device acts as a physical key to unlock the files.

Skills involved:

Java, Java Swing, Android Debug Bridge (ADB)

TITRATOR

Arduino based project for acid-base titration. The burette stopcock is attached with a servo motor controlled by an Arduino. The microcontroller measures the conductivity of the solution in the conical flask using two dipped electrodes and the principles of conductometric titration is used.

Skills involved:

Arduino, Basic knowledge of electro-chemistry

DESKTOP HANDSFREE

This project makes the desktop computer boot up, log in to your user account and start screen casting without physically touching the machine. It is achieved by implementing an Arduino microcontroller on the motherboard of the computer. This project is useful for remotely operating the PC (via Bluetooth), and mainly for those who uses the desktop for presentation purposes.

Skills involved:

Arduino, Electronics

TSUYOI (WOMAN SECURITY TRACK WINNER, DSC-WOW CODE OFF DUTY 2020)

A seamlessly connected panic button, can be interfaced with a custom keychain or with user's own smart watch or fitness band. Panic button to inform local authorities instantly, as well as notify a trusted person.

Skills involved:

Azure Cloud VM, Azure Cosmos Database, Java, Python

DEFENSEZOID

A special and secure vault that uses the user's android device as a physical key.

Skills involved:

Raspberry pi, Azure Cosmos Database, Java, Python

ADAM'S ALE (WINNER, DSC SOLUTION CHALLENGE IDEATHON, DSC-VIT-AP, 2021)

A project to direct victims of natural calamities to their nearest source of drinking water in order to combat post-calamity epidemics due to unavailability of safe drinking water.

Skills involved:

Azure Cloud VM, Firebase, Java, Python, Flutter, Arduino

CAM BRAILLE (6TH PLACE IN HACKEREARTH HACK TO ENABLE HACKATHON)

A wearable tech for assisted reading of blind people. With added feature of capturing images and auto save to cloud, fetch from the project website. Can double as a camera for blind people.

Skills involved:

Microsoft Azure, Azure Functions, Azure Blob Storage, Raspberry Pi, Python, OpenCV, Tesseract

PUBLICATIONS

- Identification of Unknown Salt. ISBN: 115234-1322238-NA-NED-TO--REG-IND-DIY-010918

ACHIEVEMENTS

- Certificate of Appreciation, 6th Position, Hack to Enable, Hackerearth
- Winner. Solution Challenge 2021, Ideathon, DSC-VITAP.
- Woman Safety Track Prize Winner, DSC-WOW, Code Off Duty, 2020.
- Winner, Idea Oryx, Open-Source Community (OSC), VITAP, 2020
- College Board, SAT India Top Performer, 2020
- Winner, Coding Jam, Rhapsody, Salt Lake School, 2019
- First Position, Codify, Cresco Scientiam, Delhi Public School, Megacity, 2019
- Jagadis Bose National Science Talent Search Encouragement Award, 2018
- 3rd Position, Configure, Concord, The Calcutta Boy's School, 2018.
- First Position, Kodenza, W.W.A. Cossipore English School, 2018
- Second prize, Annual Science Quiz Contest (Middle Level), Birla Industrial & Technological Museum, Kolkata, 2015

VOLUNTEER WORK

- April 2018 and April 2019 respectively:
As a member of the Atal Tinkering Labs, Salt Lake School, I organized two successful workshops for hands on training in the field of electronics, electricals and STEM for underprivileged children invited from a local rehabilitation center.

LANGUAGES

- English – Full working proficiency
- Bengali – Native or Bilingual proficiency
- Hindi – Limited working proficiency

REFERENCES

- Dr. Nileshchandra Kalbarao Pikle, SCOPE, VIT-AP, nileshchandra.p@vitap.ac.in
- Dr. Telajala Venkata Mahendra, SENSE, VIT-AP, mahendra.t@vitap.ac.in