



# SAYAK BRAHMACHARI

## SOFTWARE DEVELOPER

### / ALL ABOUT ME

I am an electronics engineering student and a self-taught programmer with a strong eye for innovative design and an innate desire to learn to do more.

### / COMPETENCIES

★★★★★ Python  
★★★★★ Javascript  
★★★★★ App Development  
(React Native)  
★★★★★ Web Development  
★★★★☆ Linux  
★★★★☆ C, C++, Embedded-C  
★★★★☆ Internet of Things,  
Embedded Systems  
★★★★☆ Git  
★★★★☆ CI/CD  
★★★★☆ UI/UX Designing  
★★★★☆ Automation/Scripting  
★★★★☆ Docker  
★★★★☆ Java

### / OTHER INTERESTS

> Video Editing/Motion Graphics  
> Music Production  
> Photography



### / CONTACT DETAILS

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>> Mobile No: +91-8582865691

### / WORK EXPERIENCE

#### >> Senior Software Engineer

November 2022 - Present

Worked as a full-stack web developer for multiple web-applications using React and Node.JS.

#### >> Research Analyst and Software Developer

September 2021 - October 2022

Developed Algorithmic Trading Frameworks for US Markets using Python, and created a framework to parse unstructured earnings call transcripts data using NLP.

#### >> Freelance App/Web Developer

June 2020 - September 2020

Developed SEO-optimized e-commerce websites and companion apps for small businesses.

### / PATENTS

#### >> An Unmanned Aerial Vehicle based method and system for Patrolling over Search and Rescue Area

Filed Sep 23, 2020 Patent Number 202031041280

### / PROJECTS

#### >> LiDAR-based Vehicle with Autonomous Navigation, SLAM & Obstacle Avoidance (University Major Project)

July 2021 - November 2021

#### >> Home Automation and Security System (University Minor Project)

Feb 2021 - April 2021

#### >> ShellBot (Cross platform reverse remote shell utility)

January 2017 - August 2020

#### >> eSpeak NG Bindings for Python3

September 2016 - August 2020

#### >> IoT based Self-Driving Robot

November 2019 - April 2020

#### >> struixLang (A stack based Turing-Complete programming language)

January 2017 - August 2020

### / EDUCATION HISTORY

#### >> Kalinga Institute of Industrial Technology, Bhubaneswar

BTech. in Electronics and Instrumentation Engineering  
Class of 2022

Member of multiple student societies for being passionate about robotics, music production, and motion graphics.

#### >> Sri Sri Academy, Kolkata

ISC | Class of 2018

Obtained a perfect score (100%) in ISC Computer Science.

#### >> St. Joseph's School (North Point), Darjeeling

ICSE | Class of 2016

Attended a Robotics workshop at Kennedy Space Center, NASA.

### / COURSES

> Docker for Developers and DevOps - Udemy  
> Ethical Hacking - IIT, Kharagpur  
> REST APIs with Flask and Python - Udemy