Aunsh Bandivadekar

+91 88886 1028, aunsh.sb@gmail.com, linkedin.com/in/aunsh, aunsh.com

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PROFILE

Highly motivated and result-oriented individual interested in building further knowledge in software system design and AI/ML techniques in order to research and develop highly scalable intelligent systems

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EDUCATION

Jun 2016 — Apr 2020

B.E. Electronics and Telecommunication, Sinhgad College of Engineering, SPPU

India

- First class with distinction (CGPA 8.92/10)
- Ranked in the top 10 of the entire class in the sophomore, junior and senior year
- Technical Coordinator, Sinhgad Student Council

Relevant Coursework: Data Structures and Algorithms, Computer Networks and Security, Object Oriented Programming, Artificial Intelligence, Machine Learning, System Programming and Operating Systems

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SKILLS

Java	SQL
Python	Postgres DB
JavaScript	React
C++	Logical Thinking
Node.js	Creative Thinking

WORK EXPERIENCE

Jan 2022 — Present

Software Development Engineer, Dr SB's

Remote

- Designed and developed infrastructure for bookings and appointments using Node.js and PostgresDB
- Digitized patient-care work flow including digital medical records, prescriptions and pet passports
- Created UI/UX for client side site using React and Bootstrap
- Developed npm packages to standardize the bookings API for appointments and vaccination
- Implemented smart learning metrics of a given store and showcase it with the use of dashboards

Jan 2021 — Dec 2021

Software Development - CEO's Office, 2WheelR

India

- Used Spring Boot to design and develop back end APIs and optimized them using Spark database analysis
- Designed and implemented a high number of asynchronous transactions according to ACID properties
- Implemented the vehicle buying cycle of the retail website for a customer under 4 clicks
- Developed the minimum viable product (MVP) to initiate a soft-launch of the digital space which included admin facilities, store updates and digital financial records and client side retail space

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TEACHING EXPERIENCE

May 2020 — Jun 2021

Fellow, Teach for India

India

- Taught and mentored 60 students coming from under-privileged communities in Math, History and Science at a local school
- Conducted personality development workshops, field visits and gatherings to increase engagement, merit and holistic development

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INTERNSHIPS

Jun 2019 — Jul 2019

Research Project Trainee, Forbes Marshall

India

- Designed the control circuit of the Swiss New Water's novel disinfectant dispenser according to IPC specifications and implemented it using schematics developed in Eagle
- Developed schematics for a prototype based on Texas Instruments' XTR 111 precision voltage-to-current converter.
- Oversaw purchase and procurement of materials required for the product

PROJECTS

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Dec 2021 — Mar 2022

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gotuu.in | Web App

- Conceptualized and produced a web-app to record and optimize time spent on various activities throughout the day. Formulated a metrics dashboard to see progress and updates about the different intervals.
- Generated a responsive timeline to see progressive intervals depending on the date. Provided a facility to add notes to the tasks done during the interval.

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Dec 2018 — Apr 2019

Automated Steering Mechanism using Open CV

- Used OpenCV and NumPy libraries to detect and process deviation values in a car lane while driving using edges-detecting Sobel filters which were serailly passed to the microcontroller Atmega 328p in real-time
- Steering advice was given to servomotor SG90 which rotated precisely in proportion to the amount of change in deviation of the said lane

PUBLICATIONS

Jul 2020

A Novel Design For Dual-Wideband Bandpass Filter for WLAN and Wi-Fi Applications

India

International Journal of Telecommunications and Emerging Technologies

- Simulated various prototypes using mathematical models on 3Ds CST to create a robust prototype
- Researched and developed a new generation of dual band pass 5G filter for Wi-Fi and WLAN operating at 2.45 GHz and 5.5 GHz.
- Sponsored by the Defence Institute of Advanced Technology, Ministry of Defence, Government of India.

SOCIAL WORK

Jul 2019 — May 2020

Lead Volunteer, Open Links Foundation

India

- Created and trained a network of volunteers to aide in the increase of the reach of the organization
- Facilitated inclusive communication between all stakeholders for efficient workflow and optimum utilization of resources

Nov 2018 — Jun 2019

Volunteer, Open Links Foundation

- Conducted multiple workshops to elevate technological literacy and facilitate holistic personality development in various schools for students coming from under-privileged communities.

ACHIEVEMENTS

Feb 2021

Runners-up, Eureka Start-up Competition, IIT Bombay

- As part of the team at 2WheelR Pvt. Ltd., stood second in Asia's biggest start-up competition.

Feb 2020

Best Paper, International Conference on Pervasive Computing '20

- Achieved the 'best paper' award in recognition for extensive research, design and analysis of a 5G dual-band bandpass filter

Jan 2020

Runner-up, ZinZout Antenna of Things Contest

- Stood second in the 'Antenna of Things' contest which judged design principles and knowledge about antenna development

Nov 2015

Second, Vodafone National Cycling Race

- Placed second among 100 cyclists in the national-level cycling race held in Bangalore.