Aunsh Bandivadekar

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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

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

SKILLS

Java | Python | C++ | JavaScript | SQL | Node.js | React | Spring Boot

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 backend 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

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

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

Dec 2021 — Mar 2022

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.

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 serially 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 5G WLANand 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 Defense Institute of Advanced Technology, Ministry of Defense, 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

- Received 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

Jun 2016	INSPIRE Scholarship, Government of India

- Awarded the Innovation in Science Pursuit for Inspired Research (INSPIRE) scholarship by the central government to the tune of INR 400K in lieu of outstanding performance in the higher secondary examination

Nov 2015	Second, Vodafone National Cycling Race

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