

Sarthak Bharadwaj

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EDUCATION

- Vellore Institute of Technology** Vellore, India
Bachelor of Technology - Computer Science & Engineering; GPA: 8.53/10* 2019 - 2023

SKILLS SUMMARY

Programming Languages	Python, Javascript, C, C++, Java, C#
Frontend Technologies	ReactJS, Redux, NextJS, HTML, CSS, React Native, Bootstrap
Backend/DevOps:	NodeJS, ExpressJS, PostgreSQL, MongoDB, Firebase, AWS, Azure, Docker, Kubernetes
Other Tools/Technologies	Typescript, Git, Postman, Linux, Scrum Agile, Jira, Unity Engine, Agora RTC

ACHIEVEMENTS

- Google Hash Code 2022 Qualification Round** *Certificate*
Achieved a **world rank of 88** and an **AIR of 3**.
- ACM ICPC Gwalior-Pune Regionalist** *Certificate*
Our team got an **AIR of 82** and **college rank 2nd**.
- ACM ICPC Amritapuri Regionalist**
Our team got an **AIR of 304** and **college rank 1st**.
- Overall 1st prize | CSI Devspace'21 Hackathon** *Certificate*
My team won the overall 1st prize in the Devspace'21 Hackathon for our project, CodEd.

EXPERIENCE

- MotorQ** *Remote*
Software Development Intern *May 2022 - Present*
 - Database Architecture Optimzation:** Resulting in an improvement of over 80% in performance.
 - Implemented Geo-Spatial Clustering:** Algorithms like DBSCAN & Grid based were developed using tools like PostGIS.
 - Technologies Used:** ExpressJS, PostgreSQL, ReactJS, Azure, Rancher, Kubernetes, PostGIS etc.
- Nearcast** *Remote*
Software Consultant *October 2021 - February 2022*
 - Codebase refactor to Monorepo:** Increased the scalability and maintainability of the codebase.
 - Developed new and improved features for the Nearcast social-media platform:** Also worked on the Nearcast Business Portal and the Administration Portal of the platform.
 - Technologies Used:** ReactJS, Turborepo, Material-UI, etc
- Trademarkia** *Remote*
Software Consultant *August 2021 - October 2021*
 - Led the frontend implementation of the Trademark Perfect platform:** Provides online services to consumers that require intellectual property protection.
 - Developed the Trademarkia Recruitment Portal:** The platform includes an integrated development environment with an online judging system, used to test the candidate's coding skills.
 - Technologies Used:** ReactJS with Typescript, Redux Toolkit, Chakra-UI, Stripe, Judge0 etc
- Josh Talks** *Remote*
Software Development Intern *February 2021 - March 2021*
 - Developed frontend of Josh Recruitment Test Portal:** Included a test monitoring and proctoring system leading to a significant reduction in the use of unfair means during the test
 - More than 200 people gave their tests:** The developed systems worked without any problems.
 - Technologies Used:** ReactJS with Material UI, Javascript, Razorpay API, etc

PROJECTS

- Haxaw Chess Engine:** Haxaw is a Neural Network based chess engine. It uses a Dense Neural network, along with algorithms like Minimax and Alpha-beta pruning to get the best move in a position. Also includes a GUI for playing made using Pygame. **Tech used:** *Python, Tensorflow/Keras, Numpy* — [GitHubLink](#)
- CodEd:** An E-learning platform with realtime code replay feature. Includes a web IDE with Remote Code Execution functionality. **Won the overall 1st prize in CSI Devspace'21 hackathon.** **Tech used:** *ReactJS, ExpressJS, Judge0, MongoDB* — [Demo Link](#)
- Common Entry Test Portal:** Common Entry Test is a centralised portal for clubs & chapters recruitments in the VIT Vellore Campus. The website had **more than 67,000+ page views** and **3000+ students gave tests** through the portal in the span of a month. **Tech used:** *ReactJS, ExpressJS, MongoDB* — [GitHubLink](#)
- DEVSOC'21 Hackathon Portal:** The official portal for the DEVSOC'21, Asia's biggest student run hackathon. The portal was used for everything ranging from team formation, to the final project submission. **Tech used:** *ReactJS, ExpressJS, MongoDB, AWS* — [GitHubLink](#)