



Vedant Chourasia

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B.Tech - Mechanical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.90	2019 - 2023
Senior Secondary	Central Board of Secondary Education	86%	2018
Secondary	Central Board of Secondary Education	10.0	2016

EXPERIENCE

- Rhizobee Innovations Private Limited** Jun 2022 - Aug 2022
Technical Intern as Python Developer Acknowledgement
 - Fabricated Human avatars with given specifications & extended them to auto-generate avatars with **Python**.
 - Worked with **Makehuman**, an open-source tool, and exported virtual human objects in form of OBJ.
 - Gained knowledge about standard mesh model and its usage through the **Wavefront OBJ** format for 3D meshes.

PROJECTS

- GPU Accelerated Solvers for Linear Equation** Sep 2021 - Apr 2023
Guided by- Prof Atul K. Soti, IIT Guwahati bit.ly/3Rnn2Pb
 - Worked on **numerical optimization techniques** for linear algebraic equation in 2D using **CUDA Programming** and analyzing the time difference from running code on host as well as on device.
 - Reduced the time to solve the heat equation from **90 minutes** on the host to **60.2 seconds** in the device for 0.1 million iterations (total 2000 variables taken) using **Parallel Computing**.
- Elections' Portal** Mar 2022 - May 2022
Students' Web Committee, IIT Guwahati bit.ly/3e4lrjr
 - Developed a portal for conducting transparent Students' Gymkhana Elections 2022, which served **4050+** users.
 - The ballots were securely transacted and stored on **Ethereum** based Rinkbey test network.
 - Worked on **Database design** and back-end of the portal using **PostgreSQL** and **Django Rest Framework**.
- MCS Booking Portal** Feb 2022 - Mar 2022
Personal Project bit.ly/3RmScWM
 - Developed a courier booking portal for maintaining daily booking records using **Django** and **AJAX**.
 - Implemented the functionalities of search filter, login/logout and generating bills in a tabulated PDF format.
 - Added **Data Backup** in the format of CSV, JSON and PDF via email for data recovery.

TECHNICAL SKILLS

- Programming** : C/C++, Java*
- Web technologies** : HTML, CSS, Bootstrap, Python, JavaScript, Django-Drf, Express.js, Node.js*, ReactJs*
- Database Management** : MySQL, MongoDB*
- Miscellaneous** : Web Scrapping, Git, NumPy, pandas, jQuery, AJAX

* Elementary proficiency

ACHIEVEMENTS

- Google Kickstart Round D 2022**, Secured **1149** Global Rank among **9000+** participants.
- CodeChef Starters 10 Division 3**, Secured **147** Global Rank among **10600+** participants.
- LeetCode Biweekly Contest 79**, Secured **779** Global Rank among **20000+** participants.
- Coding**, LeetCode Max Rating **1796**, **4 star** on CodeChef with Max Rating **1800**.
- Creative Shock 2020 International Case Competition**, Secured **150th** position among teams from **100+** countries.

KEY COURSES TAKEN

- Introduction to Computing (Theory and lab)
- Competitive Programming (Coding Ninjas)
- Communication Systems (ECE Minor)
- Data Structures and Algorithms in C/C++ (Udemy)
- Database Management System (Coding Ninjas)
- Linear Algebra

POSITIONS OF RESPONSIBILITY

- Backend Lead**, Students' Web Committee, IIT Guwahati May 2022 - May 2023
 - Successfully lead the backend team and ensured the smooth functioning and maintenance of products developed by SWC, like the **COVID-19 Vaccination Portal**, which facilitated the traffic of **8000+** users.
 - Fabricated the Database design of the **Placement portal** for the college.
- Web Ops Head**, Mechanical Engineering Department, IIT Guwahati Jul 2022 - May 2023
 - Lead a team of 5 Junior developers responsible for maintaining the Department's website.
 - Automated Backup for the Database by scheduling Cron Job.