Sambit Sankalp
Full Stack Engineer

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EXPERIENCE

MICROSOFT | SOFTWARE ENGINEERING INTERN
May 2023 – Jun 2023 | Bengaluru, India

- Developed a **robust, informative, and interactive** graph visualization library for analysts to analyze numeric CSV data using **WebGL and d3-force**.
- Optimized **force and data computation algorithms**, fine-tuning force strength and implementing web workers, increasing rendering performance of graph by 33%.
- Improved scalability by **minimizing drawcalls** in the browser and transitioning to canvas from SVG, resulting in a **4x** enhancement.

SKILZEN | FRONT-END DEVELOPER INTERN
Feb 2023 – Apr 2023 | Remote, India

- Teamed up with five frontend interns and the team lead to **bolster the product**, preparing it for launch.
- **Integrated graphql queries** into the frontend through Directus and graphql, infusing dynamism into the website.
- Revamped the frontend screens by refining the CSS and **enhancing website responsiveness while reducing code redundancy**.

INFYBYTES AI LABS | FULL STACK DEVELOPER INTERN
Feb 2023 – Mar 2023 | Remote, India

- Partnered with eight software engineers and product managers to enhance the product's capabilities through **Next.js, Node.js, and GraphQL**.
- Optimized the API by **incorporating pagination and implementing caching via Hasura webhooks**, leading to around 80% performance improvement.
- Created components for **monitoring migration progress**, enabling lengthy migrations to execute in the background.

PROJECTS

PHOENIXFI | REACT, ML, WEB3

- Pioneered PhoenixFi, a transformative project **revolutionizing the FileCoin ecosystem** through innovative lending solutions and **machine learning for reputation prediction**.
- Applied **Random Forest ML** to analyze on-chain miner data, decentralized computation on **Lilypad** and enhanced the risk assessment.
- Spearheaded designing and implementing the frontend of the balanced **incentivization model** using ReactJS and tailwindCSS.

NFT DOCKET | REACT, WEB3

- Created a **Decentralized Warranty Issue platform** that empowers sellers to **deliver warranties** to buyers via an NFT built using Polygon.
- Constructed the website's front-end using **React and TailwindCSS**, while also designing screens for features like **issuing warranties and verifying ownership** integrated within the Web3 environment.

ACHIEVEMENTS

Dec 2023	**ETHIndia Winner**	ETHIndia
Mar 2023	Best Use of **Filecoin** Prize	ETHforAll
Feb 2022	Best Explainable **Machine Learning** Prize	StormHacks

SKILLS

LANGUAGES
Javascript, Typescript, HTML, C++

LIBRARIES/FRAMEWORKS
React, Redux, Gatsby, NextJs, Mongoose, Nodejs, GraphQL, Firebase, Express, Riverpod

DATABASE
MySQL, MongoDB

TOOLS/PLATFORMS
Git, Github, Vercel, Figma, Hasura

SOFT SKILLS
Leadership, Team Work, Collaboration

EDUCATION

NIT ROURKELA
B. TECH IN COMPUTER SCIENCE
Nov 2020 - Present | Odisha, India
CGPA: 8.63 / 10.0

VIKASH RESIDENTIAL SCHOOL
HIGHER SECONDARY
May 2020 | Odisha, India
Percentage: 96.6%

DAV PUBLIC SCHOOL
SECONDARY
May 2018 | Odisha, India
Percentage: 92.4%

PORs

GDSC | NIT ROURKELA
Streamlined community workflow through the coordination of events, hackathons, and workshops such as **Google Crowdsource**. Delivered sessions to over **100 students** on the latest technologies.

MONDAY MORNING
Supervised technical aspects of the platform, encompassing website development, software maintenance, team management, and guaranteed the seamless operation of technical systems by **mentoring over 50 students**.

TEDX | NIT ROURKELA
Developed the community website from scratch using cutting-edge technologies like Gatsby and successfully concluded various TED events.