

SHUBHAM GUPTA

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Education

Bachelor of Technology, Civil Engineering

Jun 2018 – May 2022

Indian Institute of Technology, Roorkee

Experience

ZK Email

April 2024 – Present

Software Engineer

- Built highly performant, responsive web applications using React and optimized rendering using lazy loading and code-splitting.
- Ensured cross-browser compatibility and adherence to W3C standards, improving overall user experience.
- Optimized pages for SEO by implementing best practices for structured data, meta tags, and load speed improvements.
- Collaborated closely with product and backend teams to integrate smart contracts and blockchain interactions into the user interface.

Triomics Healthcare Private Limited

June 2022 – June 2024

Full-Stack Software Engineer

- Led the development of dynamic web apps and two Flutter mobile apps, focusing on performance and user experience.
- Migrated frontend apps from Webpack to Vite, improving build performance and reducing build times by 74%.
- Designed CI/CD pipeline for automatic deployment, saving developer time by 90%.
- Developed a system for retrieving patient health data and created a RAG pipeline using ChatGPT for advanced processing, enhancing accessibility and decision-making.
- Collaborated on data flow architecture between NLP services and integrated systems, improving usability.
- Implemented UI accessibility improvements, complying with WCAG 2.1 standards to ensure a better user experience.
- Built browser extensions to assist external data capture integrations.
- Used Framer Motion to create smooth animations for the main website, boosting user engagement.

Kyverno (LFX Mentorship)

Mar 2022 – May 2022

LFX Mentee

- Completed CNCF TAG Security Self-Assessment for Kyverno to achieve SLSA level 3 compliance.
- Improved the OSSF Security Scorecard results of Kyverno from 5.5 to 7.1.
- Integrated static analysis and dependency update tools in CI/CD workflow.

Triomics Healthcare Private Limited

May 2021 – Dec 2021

Full-Stack Software Engineer (Internship)

- Collaborated with the core founding team during initial stages and interviewed several full-time candidates
- Engineered a custom design system library atop Material UI and Ag-grid containing 35+ components.

Rephrase.ai

Jan 2021 – Mar 2021

SDE Internship

- Integrated advanced analytics for all the campaigns using Google Analytics and Google BigQuery.
- Improved FFmpeg based video generation pipeline, resulting in a 40% reduction in corrupted videos.
- Added end-to-end testing using Puppeteer and integrated it into the CI/CD pipeline, improving code quality.

Vestate

Nov 2020 – Dec 2020

SDE Internship

- Spearheaded the portal development and setup initial infrastructure for the applications.
- Introduced REST API, MongoDB aggregation pipelines and JWT based authentication system.

Powerplay

Jun 2020 – Aug 2020

SDE Internship

- Developed 6 major user flows from scratch, including user activity, threads, and organisation-level report generation.
- Handled PDF generation for daily reports and invoices using libraries like PDFKit, improving reporting efficiency.
- Created scripts for generating user analytics data, aiding in strategic planning.

Projects

Beast | *CTF challenge deployment and management tool*

- Developed core pipeline for the deployment of containerised challenges.
- Devised health checks and monitoring tools to ensure uptime and smooth operation of deployed challenges.
- Implemented sidecar architecture for optimising stateful workloads decreasing average resource consumption by 80%.

Secure Semantic Snap | *Fraud prevention MetaMask extension*

- Built metamask snaps that take transaction data and function signature and send it to the server for processing.
- Wrote a selenium driver which used chat.openai.com to analyze the transaction bytecode data.

Shadow-OS | *Arch Linux-based custom distro*

- Added out-the-box Support for Nvidia graphics driver with relevant power optimizations for laptops.
- Enabled support for hardware acceleration using integrated GPU by altering intel P-States.
- Configured wayland, pipewire, sway, waybar for smooth and productive user experience.

PwnHub | *Blockchain based vulnerability disclosure platform*

- Built serverless exploit hosting to enable PoCs without revealing the vulnerability
- Integrated Portis and Matic APIs as a blockchain network provider.

Technical Skills

Languages: JavaScript, TypeScript, Golang, Dart, Python, Java, C++, Bash, SQL, PHP, Git

Software Packages: ReactJs, Flutter, Django, Redux, VueJs, NodeJs, Gin, MongoDB, MySQL, Docker, Kubernetes

Achievements

2022 **Top 5** ETHIndia 2022 Infura Track

2022 **Winner** Inter IIT 10.0 Hackathon Gold Medallist (Mercari's Large Scale System Design Hackathon)

2021 **Winner** HackInOut 7.0 Portis Track

2019 **Runner-Up** Microsoft Code.Fun.Do++ 2019 On-Campus Round