Sarthik Gupta

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WORK EXPERIENCE

- **Senior Software Engineer – Soroco**   *Jan 2024 – Current*
  - Contributed in the development of a data-intensive **Angular** based application utilising **GraphQL** for data-fetching.
  - Led the development of a **NextJS server components** based application for performance metrics, analytics, and micro-service version management.
  - Tech Stack – TypeScript, React, NextJS, Angular, GraphQL

- **Software Engineer – Soroco**   *Aug 2021 – Dec 2023*
  - Played a core role in the process of design standardization by creating new reusable components and guiding the development of the **design-system**.
  - Contributed significantly to the enhancement of the user interface of an **Angular**-based application through active involvement in frontend development.
  - Led the adoption of **micro-frontend** architecture, leveraging module-federation & **web-components** to seamlessly integrate **React** into the existing Angular application.
  - Actively sought out **performance** bottlenecks and efficiently reduced app bundle size by over 50% through the implementation of design system **tree-shaking**.
  - Managed **major version upgrades** and continuously **optimized CI/CD pipelines** across all frontend repositories, ensuring seamless integration and enhanced efficiency.
  - Tech Stack – TypeScript, Angular, React, NgRx, RxJS, GoJS, Azure CI, Docker

- **Core Contributor – The Tor Project**   *Jun 2023 – Current*
  - Developed a **Flask** based application featuring an intuitive web portal enabling seamless user registration and subscription management.
  - Engineered a modular application architecture through **iterative rewrites**, enabling efficient task delegation to **RabbitMQ** workers via **Celery** and **Celery Beat**.
  - Tech Stack – Python, Flask, PostgreSQL, RabbitMQ, Docker, Gitlab CI

- **Intern – Collegedunia**   *Jan 2020 – Jul 2020*
  - Developed a full-stack real-time news aggregator, sourcing updates from diverse websites.
  - Tech Stack – Python, NodeJS, Express, MySQL, Selenium

PROJECTS & ACHIEVEMENTS

- **Google Summer of Code (GSoC) 2022**   *Apr 2022 – Sept 2022*
  - Selected for GSoC 2022 to collaborate with The Tor Project on the Tor-Weather project.
  - Completed development of project within 12-weeks, passing both the mid & end-term evaluations.

- **Microsoft Azure Bug Bounty**   *Jun 2022 – Aug 2022*
  - Reported an information disclosure bug in Azure DevOps, qualifying for a $5000 bug bounty.
  - Featured in 2022-Q3 & 2023 Annual Leader board of Microsoft Security Research Centre.

EDUCATION

- **Punjab Engineering College, Chandigarh**   *Aug 2017 – Jun 2021*
  Bachelor of Technology | CGPA: 8.19/10

SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python
- **Development:** Angular, React, NextJS, Astro, Flask, RxJS, GraphQL, SQL, RabbitMQ
- **Tools:** Azure CI, Gitlab CI, Docker