

## Harsh Suvarna | Software Developer | London

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### Education

#### University of Glasgow, Master of Science in Information Technology

September 2023 - August 2024

Result: Merit (Predicted)

Relevant courses: Data Visualisation, Database Management Systems, Advance Programming, Data Structures.

#### University of Mumbai, Bachelor of Engineering in Instrumentation

July 2017 - June 2021

Result: Distinction (8.80 CGPA /10)

### Skills

**Languages & Frameworks:** Python, Typescript, Javascript, Flask, Django Java, C, React, Svelte, Vue, CSS NodeJS, ExpressJS, NestJS, Fast API

**Cloud & CI/CD:** AWS (ECS, Lambda, S3, EC2, Cognito), Google Cloud Platform (GCP), Docker, Git, GitHub, JIRA

**Database:** Microsoft SQL, MySQL, PostgreSQL, MongoDB, DynamoDB

### Experience

#### Software Engineer - full time (in-office)

August 2022 – July 2023

Code B Solutions

- Collaborated with cross-functional teams and engineered scalable, secure and user-friendly NodeJS applications from scratch using Flask, Django, React, Vue, Svelte, Angular, NestJs, MongoDB, AWS and MySQL, using agile methodology, ensuring alignment with business objectives, while maintaining a strong client relationship.
- Optimised an application utilising event-driven publisher-subscriber system, to enable real-time user collaboration, leading to a 40% increase in the capacity for concurrent users in collaborative sessions.
- Revamped cloud infrastructure, by implementing usage-based billing products wherever possible, bringing down cloud instance monthly bill >15%.
- Implemented an automated python REST API validation process using Postman, resulting in reduction in manual testing efforts and significant boost in team productivity

#### Backend Developer - full time (remote)

February 2022 – July 2022

D'Vastra Fashion

- Led the backend development and deployment of D'vastra Mobile application, in an agile environment, using Fast API, Docker, Google Cloud platform and MySQL, resulting into 75% decrease in API response time.
- Ideated and implemented the bulk product upload feature, enabling sellers to seamlessly upload data through spreadsheets, leading to a 30% increase in the client's App experience measured via client survey.
- Set up Continuous Integration/Continuous Deployment (CI/CD) pipeline, for development as well as production environments, ensuring seamless transition, resulting in faster release cycles.

#### Analyst, Risk Advisory Services - full time (hybrid)

July 2021 – January 2022

Ernst & Young LLP

- Orchestrated and executed comprehensive nationwide concurrent audits of financial institutions, auditing transactions worth 43 billion and enhancing compliance accuracy >25%.
- Planned and practised monthly reporting, and branch visits. Analysed both qualitative and quantitative data in governance, risk & compliance, process reviews, standard operating procedures, enterprise risk management.
- Automated audit process using EY Digicube and SQL bringing the audit time down >50%.
- Optimized SQL queries by crafting complex logic, reducing transaction data retrieval time significantly.

### Self learnings and Projects

#### Cybersafe Attack Tree Tool

Frontend-repository Backend-repository

- Cybersafe is tool which helps you to create, manage and visualise threats to your system effectively.
- Facilitates the analysis of the most cost-effective, probable, and frequent threats, enabling you to prioritize feature development for maximum security.
- Features a user-friendly interface with drag-and-drop functionality and auto-save, making it accessible for beginners and developers in small organizations to effectively engage in threat modelling.

#### Butik Virtual Stores

Frontend-repository Backend-repository

- Butik is full-stack web application which uses React, Fast API, MySQL to allow users to discover and browse local stores' products, encouraging brick-and-mortar shopping.
- Equipped with OTP-based login for enhanced security, this application has the potential to enhance the visibility of small businesses, thereby contributing to an increase in the revenue of the stores.

### Accomplishments

- Awarded the EY "I am Exceptional" award for displaying outstanding and innovative intellectual contributions – 2022
- Finalist in Solar Decathlon India for planning, designing and constructing Net Zero Energy disaster shelter - 2021