

# Aishwarya Sunder

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## WORK EXPERIENCE

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### Open Science Tools

Nottingham, UK

Software Engineer

Jul 2024 – Present

- Developed and maintained secure backend services using **Flask** and **Gunicorn**, deployed via **NGINX**.
- Automated GitLab domain whitelist updates using a **Python** script and GitLab CI/CD environment variables.
- Developed monitoring tools to analyse logs, extract session-based access patterns, and export data to CSV for audit review.
- Managed configuration and security of production environments, including RAID1 setup and disk encryption with **LUKS**.
- Built an access portal for Pavlovia with Flask and **Angular**, enabling designated users to add new accounts via **GitLab API** integration.
- Integrated Google and Microsoft as **OAuth 2.0** providers in GitLab to enable secure single sign-on (SSO) for Pavlovia users.

### Mphasis

Bangalore, IN

Associate Solution Developer

Jul 2021 – Dec 2022

- Demonstrated proficiency in core web development technologies, including **JavaScript**, **HTML** and **CSS** while collaborating within the **Blockchain Centre of Excellence Team**.
- Led the development of 3 **Web3.0** applications with seamless end-to-end functionality, integrating advanced blockchain features using the MERN stack (MongoDB, Express.js, **React.js**, Node.js).
- Created and implemented RESTful APIs with **Node.js**, resulting in a 40% reduction in data transfer latency and a 50% improvement in API response times, exceeding industry standards.
- Collaborated on 5 proof-of-concepts and seamlessly integrated blockchain technology into applications, dockerizing them for deployment on **AWS servers**, using **CI/CD pipelines**, resulting in a 20% reduction in development time.
- Implemented unit testing and integration tests using **Jest** to ensure code quality and reliability.
- Played a key role in troubleshooting and resolving 50+ issues within tight deadlines.
- Received training in full-stack development, Solidity, Hyperledger Fabric, Ethereum, Web3.0, Corda and Amazon Web Services (AWS).

### Amazon

Bangalore, IN

Transaction Risk Investigator

Nov 2020 – Jul 2021

- Conducted in-depth analyses of 500+ customer accounts, interpreting and analysing data using statistical techniques and Amazon tools to ensure regulatory compliance.
- Independently handled 1000+ authentication processes, ensuring compliance with regulatory standards and using critical judgment for customer authentication based on **data analysis**.

## SKILLS

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**Frontend:** JavaScript, React.js, Next.js, TypeScript, HTML, CSS, Tailwind, jQuery, Django, UI/UX Design, WordPress

**Backend:** Node.js, Python, Java, MongoDB, SQL, Linux, AWS, C#, Solidity

**Project Management:** Agile, Git, Docker

## EDUCATION

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### University of Strathclyde

Glasgow, UK

Masters in Advanced Computer Science

Jan 2023 – Jan 2024

Core modules: Distributed Information Systems, Project Management, Research Project

Grade: Distinction

## PROJECTS

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### Type 2 Diabetes Support App

July 2023 – Aug 2023

- A web-based support app for people with type 2 diabetes built using the **MERN** stack as part of my master's thesis to assess its feasibility and acceptability from a user-centric perspective.
- Implemented 10+ features including health tracking, health tips, and social forum. Designed REST APIs using **Node.js** for backend functionality. Built an intuitive user interface with React.js using components, routers, and hooks for efficient rendering.
- Utilized **MVC** (Model-View-Controller) architecture for the backend architecture. Implemented JWT authentication for user authentication and access control.
- Tools used: React.js, React Routers, React Bootstrap, Node.js, Express.js, MongoDB Atlas, Mongoose, Postman, Render cloud, Figma, JWT.
- GitHub repository: <https://github.com/AishShyam/GlucoCare>

### University Distributed Systems

Feb 2023 – April 2023

- Executed a group project focused on designing and implementing data models for a complex business scenario in a university setting.
- Developed relational databases, XML files, and ontologies to store and integrate data, facilitating efficient data sharing. Wrote **SQL**, XQuery, and SPARQL queries to address business requirements, ensuring data accessibility and integrity.
- Key tools: Protégé, **MySQL**, VSCode IDE, Notepad++, SPARQL.

### NFT Marketplace

Mar 2022 – May 2022

- Developed a full-stack decentralised application that enables users to connect through a cryptocurrency wallet, mint new NFTs, and list them for sale on the blockchain marketplace.
- Implemented smart contracts with **Solidity** to create 500+ non-fungible tokens on the Ethereum blockchain along with functions to list, buy and transfer ownership.
- Built user-friendly web interfaces with React.js to allow seamless onboarding and interactions like creating NFTs and putting them up for auction. Implemented **Redux** for centralized state management.
- Integrated **IPFS** for decentralized storage of NFT metadata and assets reducing data retrieval time by 60%, as well as Ethers.js web3 library for connectivity to the Rinkeby test network.
- Tools used: Solidity, React.js, Redux, Hardhat, Ethers.js, IPFS, React Routers, MetaMask.

### NFT Minter

Feb 2022 – Mar 2022

- Developed a full stack Dapp enabling users to log in via MetaMask wallet and mint NFTs on the Rinkeby testnet viewable from OpenSea.
- Built minting functionality using Solidity smart contracts that assign unique tokenIds and metadata to newly created NFTs.
- Added support to view freshly minted NFTs on OpenSea by integrating with their **web API**.
- Tools: Solidity, **Next.js**, Moralis, OpenSea API, **Tailwind CSS**