

Mahsin Saifullah

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EDUCATION

- **MSc in Computer Science (with Industrial Placement) – Queen Mary, University of London** Sept 2019-Sept 2021 [Distinction]

Modules include: Advanced Object-Oriented Programming using C++, Natural Language Processing using Python, Functional Programming using Haskell, Data Analytics using Python

- Final MSc Project: A Persuasive Food Tracking Mobile Application using React-Native and NodeJs

- **BEng in Mechatronics – International Islamic University in Malaysia** Feb 2015- July 2019
CGPA 3.71(4.0) [First Class Honors]

Modules include: Programming for Engineers in C, Digital Signal Processing using C#, Microprocessor Based Systems, Intro to Machine Learning using Python,

- Final Year Project: Intelligent Evacuation Simulation Model

- **Online Development Training** Sept 2018- Present

- Algorithms, Part I and II, offered by Princeton University on Coursera
- Complete Web Development Bootcamp from Udemy
- React Front to Back Bootcamp from Udemy
- Complete React Native Bootcamp from Udemy
- Python for Data Science and Machine Learning Bootcamp from Udemy

- **A Level - Islamic International School and College, Bangladesh** June 2014

- **O Level - Islamic International School and College, Bangladesh** June 2012

WORK EXPERIENCE

- **Software Engineer II – Connex One LTD** Mar 2023 – Present

- Leveraged React, Typescript and Material UI to develop and maintain key features for Connex One's award winning omni channel customer experience platform. This included revamping their interaction centre to be more efficient in handling large numbers of interactions from different channels like email, whatsapp and so on by using states more efficiently and using third party libraries like React Query and Redux.
- Implemented remote search with infinite scrolling replacing old style numbered pagination. This improvement greatly enhanced user experience by making the navigation feel more intuitive and natural.
- Utilised websocket services to make live chat and voice communication channels more secured by introducing a combination of machine to machine keys and auth headers.
- Spearheaded the development and implementation of internationalisation (i18n) features, enabling the application to support multiple languages.
- Collaborated with localization teams to ensure accurate translations and cultural relevance, improving user satisfaction in non-English speaking regions.
- Collaborated with UX/UI designers to create their internal component library and design system called Nova for seamless user experiences, enhancing user engagement by 25%.
- Worked on their dashboard builder which included complex grids, drag and drop and E charts.
- Took the initiative to increase the code coverage with automated testing leveraging tools like Jest and Cypress, this helped improve code reliability, minimised regression and reduced post-deployment issues.
- Worked in a team of about 6-7 engineers and collaborated with cross-functional teams, including backend engineers and product managers, and utilised agile methodologies to deliver high-quality products within deadlines.
- Mentored junior developers, providing code reviews, technical guidance, and best practices, fostering a collaborative team environment.

Software Engineer (Mid-Level) (UI) – Auden Group LTD**Nov 2022 – Mar 2023**

- Utilized React, Typescript to develop frontend features for Auden’s loan application journey in a micro frontend architecture.
- Worked in a team of about 4-5 engineers and QA engineers and utilized Agile Methodologies to incrementally release new features or maintain legacy.
- Lead the delivery of Auden’s medium term loan phase 2 feature by collaborating with Product Managers, Backend Engineers and UX designers.
- Took initiative in improving ways of working when it comes to writing efficient and industry standard documentation.
- Improved Testing strategy by introducing TDD and BDD best practices.
- Wrote extensive automated unit tests using Jest and wrote integration and end to end test using cypress.
- Assisted Head of Engineering with recruitment activities.

Software Engineer (Mobile Apps) – The Hut Group, UK**Sept 2021 – Nov 2022**

- Developed their product display page for their native mobile apps leveraging React Native and Typescript, which included a complex image carousel with pinch and zoom feature, accordions that used react native bottom sheets.
- Utilised GraphQL and Context API to efficiently fetch and cache data for product page as the app is used by millions users, since THG owns widely popular ecommerce brands like MyProtein and LookFantastic.
- Built out their native ratings and reviews feature leveraging Context API, which needed to handle a very high volume of traffic.
- Spearheaded the delivery of their subscribe and save feature for their native mobile apps.
- Developed their search feature with debounce and infinite scrolling to help minimise spamming and load on the API.
- Used Jest, React Testing Library, and detox to write unit tests, snapshot tests, integration tests and E2E tests to make sure all codes meet quality standards before they are deployed. This also helped minimise regression.
- Performed A/B tests using Firebase remote config to determine the effectiveness of a feature variant in the market.
- Deployed apps to both IOS App store and Google play store using CI/CD tools like Bitrise.
- Worked in a team of about 6-7 engineers and utilized Agile Methodologies to incrementally release new features or improve on existing ones.
- Collaborated with Product Managers, Backend Engineers and UX designers to iterate on new features.
- Investigated and fixed production level incidents raised by firefighters with efficiency.
- Refactored legacy code to make it more modular, reusable, and efficient and made sure they are up to modern industry standards.
- Mentored and paired with fresh graduates and junior engineers to ensure there is no gap in knowledge and work can be delivered as a team.

Junior Software Engineer – Pinro Technologies Ltd, London, UK**Aug 2020 – Sept 2021**

- Designed and developed mobile applications, using React Native, according to client briefs and modified designs to meet changes in client specifications.
- Assisted Senior Frontend Engineers in designing web applications using React and Redux.
- Used React, Redux and Electron to develop desktop applications in line with client requirements.
- Collaborated with designers, back end developers and UX designers to meet project goals and create effective user experience with digital products.
- Designed and developed backend services and Restful APIs using NodeJs and Express.
- Used skills in debugging to check code, improve code and enhance the functionality and user experience of existing applications.
- Interacted with clients to present designs and demos.
- Utilized Jira’s Scrum and Kanban board for Agile Software development and Confluence for documentation.
- Utilized Github for collaboration and version control.

Ecommerce App using Typescript, React, React Native, Graphql – *The Hut Group*.**Sept 2021 - Nov 2022**

- Full-fledged Ecommerce application developed for popular brands like LookFantastic, MyProtein and so on.
- Developed using Typescript, React and React Native.
- Used Apollo Graphql to communicate with in-house backend API.
- Context API was used for state management and styled-components for styling.
- Jest, React Testing Library was used to write automated tests.
- Used Firebase for remote configuration to toggle new features on and off, A/B tests and release monitoring.

8track Desktop App using Typescript with React, Redux and Electron – *Pinro Technologies Ltd*.**Nov 2020**

- 8track Music Solutions is a dedicated music consultancy and digital music provider, based out of London and operating throughout the UK and globally.
- Designed and developed a new client desktop music player for them for Windows and Mac Operating system using React and Electron.
- Redux was used for state management and SCSS for styling.
- Integrated the new desktop player with existing CRM.

Cholishnu Mobile App using React Native and Redux – *Pinro Technologies Ltd***Sept 2020**

- A cross platform mobile application for reading eBooks, listening to audios, watching videos and booking events developed using React Native.
- Cholishnu is a startup digital platform that brings users various digital contents and publications, like eBooks, audiobook, podcasts, documentaries and so on.
- Developed a personalized eBook reader, audio player and a video player all in one cross platform app.
- Integrated with a backend API and SQL server.
- AWS S3 bucket is used to store their contents.

MealDoctor App using React Native and NodeJs – *MSc Final Project***June 2020**

- A Full Stack mobile application to track food calories developed using React Native and NodeJs(Express)
- Users can take pictures of food and the app will detect the food and its calories.
- Google Vision Api is used for food image detection and Edamam Food Api is used for calorie detection.
- MongoDB atlas is used to store user info, food log and other analytics.
- AWS S3 is used to store images.
- Used Git and Github for version control.

Reference available on request