Udbhav Agarwal

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Portfolio - https://udbhavagarwal.com

EDUCATION

University Of Victoria   Victoria, BC
Bachelor of Computer Science   *Sept. 2020 – May 2024*

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, HTML/CSS, SQL (Postgres), Python, C/C++, R
Frameworks: React, Node.js, Flask, Tailwind CSS, Chakra UI, jQuery, Jinja, Jest, Github Actions
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

EXPERIENCE

Software Engineer | Nodejs, React, Jest   April 2023 – Present
Niftory   *Seattle, WA*

- Orchestrated a team of three developers to construct a comprehensive automation testing repository encompassing 80% of Niftory's APIs. Employed **sharding** in our CI environment to significantly decrease test duration from **16 minutes to 7 minutes**.
- Authored **Bash scripts** to optimize the **CI/CD pipelines on GitHub Actions**, resulting in a **25%** reduction in deployment times and eliminating the need for manual developer intervention.
- Implemented test report coverage integration with **Slack webhook** for sending test reports after every staging deployment, enabling early bug detection and preventing issues from reaching production.

Full Stack Web Developer | Python, PostgreSQL, jQuery   Sep 2022 – Dec 2022
TradableBits Media Inc.   *Vancouver, BC*

- Designed and optimized SQL queries in a complex relational database comprising over 400 tables, employing **PostgreSQL and Python** to efficiently manage data operations across tables containing more than 40 million rows. Adhered to **ACID database principles**, utilizing indexing and foreign keys for enhanced performance.
- Developed and deployed robust front-end features for high-profile clients like **Ticketmaster and Live Nation**, leveraging **JavaScript, jQuery, and HTML/CSS** to create engaging and user-friendly interfaces.
- Integrated live video banners seamlessly into a livestreaming platform utilized by esteemed sports franchises, including the **Toronto Maple Leafs and the Toronto Raptors**. Leveraged **WebSockets** technology to deliver real-time game highlights to an average of **6,500 concurrent viewers**, ensuring an immersive viewing experience

Software Engineer | React, TypeScript, Docker   October. 2021 – Sept 2022
Niftory   *Seattle, WA*

- Implemented **Next.js for Server-side Rendering**, resulting in improved loading speed and enhanced **Google Core Web Vital Metrics**. This optimization led to a **12%** increase in web traffic for client apps.
- Collaborated closely with two senior developers to architect **GraphQL APIs**, empowering other developers to leverage Niftory's backend workflows. Leveraged **Docker** to containerize the API Service and facilitate seamless deployment on **AWS**.
- Developed **Node-based automation scripts** utilizing **Jest** for conducting comprehensive unit testing and integration testing on Niftory's backend APIs. This initiative successfully reduced the failure rate of Niftory's APIs by an impressive **30%**.

PROJECTS

MintMe No-Code Minter | *NextJS, Framer Motion, Firebase Database*   Aug. 2022 – Present

- - Designed and developed an immersive, user-friendly NFT mint tool utilizing the Niftory API and leveraging **Dapper Labs' Flow blockchain**. Leveraged NextJS as the foundation for this application. Currently, the tool enjoys an impressive average of **1000** monthly active users.
- Led the development of an **Authentication service** utilizing **Google's Firebase databse**, enabling content creators to upload their content as NFT collections, facilitating seamless consumption by users.

Team Manager | *Django, Rest APIs, TypeScript, React*   May 2022 – Aug 2022

- Built a team management app for a local restaurant allowing them to manage their employees shifts
- The Front-end was build using React and Chakra UI, allowing users to add manage and delete users according to their needs
- Built a REST API using **Django and Python** which served as a backend for the web app

NFT App | *React, GraphQL APIs, OAuth*   Aug. 2022 – Present
- Implemented the oauth flow allowing users to login and claim free NFTs
- Built a sample app to showcase a basic working application of NFT's and how they can be created easily using open source APIs