YASH TIBREWAL (MSc. C.S. UF, USA)

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Passionate Computer Science graduate with a knack for developing high quality software and creating end to end solutions.

EDUCATION

The University of Florida, Florida, USA *December 2023*

Masters of Science in Computer Science 3.8/4.0

Relevant subjects: Computer Networks, Analysis of Algorithms, Mathematics for Intelligent Systems, Software Engineering, Database System Implementation, Software Testing and Verification, Advanced Computer Networking, Applied ML

NMIMS University, Mumbai, Maharashtra, India *April 2019*

Bachelor of Technology in Information Technology

SKILLS

Programming Languages and Semantics: Java, Typescript, JavaScript, Python, C++, C, PHP, HTML, CSS, MySQL, SQL, Go

Software and Services: MongoDB, Amazon Web Services S3 Bucket & EC2, RabbitMQ, Windows Platform, Agile Software Development

Tools: MongoDB Compass, VSCode, Jira, BitBucket, GitLab (for code management), Android Studio, Unix, Unit Testing, REST

Frameworks: Vuejs, Vuex, GraphQL, Expressjs, Nodejs, Loopback, Kivy, Mongoose, React, ElasticSearch, Microservices

PROFESSIONAL EXPERIENCE

Stylabs Technology (Information Technology) *July 2020 - July 2021*

Junior Full-Stack Developer / Engineer (December - July 2021) / Technical Internship (July - December 2020)

- Established API development and testing principles that served as blueprint for all new APIs, thereby enhancing code scalability and reducing onboarding time for new coders, and lowering project development costs.
- Designed and implemented CRUD Restful APIs for the admin portal using GraphQL. Leveraged MongoDB and RabbitMQ for memory-intensive tasks, like event-driven emails. Integrated AWS S3 bucket for image management operations.
- Implemented a new user interface for the admin portal by collaborating with product designers and technical leads.
- Integrated Google Places API with debouncing functionality, reducing API calls by approximately 33% and saving infra costs.
- Utilized tools like Postman for API technical documentation, which included req/res samples to improve developer velocity.
- Utilized test-driven development for web APIs, including automation testing,which eliminated the prevalent manual testing procedures and improved code coverage by 40%.

India Infoline Finance Limited (Financial Industry - Loan and Stocks) *June - July 2018*

Android Developer - Intern

- Developed an Android library using canvas to create charts and graphs for plotting stock prices.
- Implemented Line and Candlestick charts with various time durations, ranging from 1 day to 5 years, enhancing user comprehension of prices, designing the graph to dynamically adjust its size based on the container, enabling seamless integration as a native module, to finally, integrate the API efficiently, reducing the network load by an impressive 95%.
- Improved code health and memory efficiency of the application through a thorough refactor employing effective memory management techniques, for e.g. by optimizing multiple object creation.

ACADEMIC PROJECTS

Mini-Bit torrent (https://github.com/yashtibrewal/Mini-Bittorrent) *Aug 2018 - Feb 2019*

Back End - Developer

- Led a team of 3 to mimic the Bit-Torrent application by using Java programming, Networking Libraries and Threading and successfully transferred files from one system in a network to all other systems connected to the same network.
- Developed a distributed file transfer system topology based on P2P protocol, implementing a few features of BitTorrent file sharing protocol, introduced a choking and unchoking mechanism which increased performance in the system.
- Successfully connected the peer nodes by TCP connection and UDP packets, which consists of handshake messages. The project involved a connection phase, identity and information networking phase and a file distribution phase.
- Implemented a file splitting algorithm to split files into user configurable sizes to optimize transfer based on network.

Fraud Reduction in Eye Care (Memories – Project Deep Blue) Oct 2017 - Feb 2018

Back End Developer

- Selected as 1 of 25 shortlisted teams out of a total of 1000 students for a competition held by Mastek. Worked in a team of 4 to reduce fraud cases in money sponsored by N.G.O for cataract operation using Machine Learning.
- Performed data analysis and data processing to crop images and created labeled images for the training classifier and pre-processed images from color to black and white which decreased training time for cascades by 66%.
- Implemented open-source machine learning algorithms for detection of faces (HAAR, LBP cascade algorithm) and compared pre and post-op images of patients using Feature Description Matching algorithms and Vector pipelining. This resulted in a 40% reduction of fraud cases by detecting duplicate applications for fundings to the N.G.O.