Prakhar Varshney

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EDUCATION

Boston University, Boston, MA   Sept. 2021 – Present
Metropolitan College   Expected graduation: May 2023
Candidate for a Master of Science in Computer Science   **GPA: 3.78/4**
Related courses: Data Science, Secure Software Development, Algorithms, Artificial Intelligence

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India   Aug 2016-Sept. 2020
N.I.E.T Greater Noida
Bachelor of Engineering in Computer Science
Related courses: Object Oriented Programming, Data Structures and Database Management, Programming in Python

TECHNICAL KNOWLEDGE

Languages:	Python, R, JavaScript, Dart, C, C++
Databases:	MySQL, Firebase, MongoDB, Mongoose, SQLite
Technologies:	Flutter, AWS, Django, REST, Angular, Git, Node.JS, Express.JS, GraphQL
Mobile technologies:	Android (Java and Flutter)
Research:	GPU Abstractions for Modern Operating Systems

WORK EXPERIENCE

TutorBin, Gurugram, India   Jan 2021 – Aug 2021
Software Engineer
- Built the complete expert portal admin panel with VueJs and WebSocket for live updates.
- Implemented user authentication using OAuth2.0 and developed APIs for CRUD operations of different user roles.
- Decreased feed latency by 90% by integrating Firebase's RealTime DB with Cloud Storage for the media content.
- Revamped the previous Video Player by using the ExoPlayer library, thus improving the video stream time by 75%.
- Broadened the feature set by implementing time zone management with daylight saving time and auto conversion for both client and admin. Github: https://github.com/prkhrv/py_tzone

Vaizle, Mohali, India   May 2020 – Dec 2020
Software Engineering Intern
- Improved the vaizle platform's payment gateway by implementing payments with Stripe and PayPal, reducing the payment failure by 35% and load time by 20%.
- Engineered the cloud migration pipeline of the application to Digital Ocean and designed the platform's load balancer functionalities along with backend APIs using the Django Rest Framework for the client-side application.
- Implemented the client-side MEAN application with JWT authentication and session maintenance.
- Developed API calls for various CRUD operations to be used by the client using Node with MongoDB for persistence and established secure routing to the domain.

ACADEMIC PROJECTS

Understanding Exoplanets with Data Science   Dec 2021 – Jan 2022
- A data science research process which trains and test reliable models to detect an exoplanet and predict its habitability based on its conditions like distance from parent star etc. These models were trained and tested on data from ground-based telescopes, spitzer space telescope and in the coming future our team will be testing it on data from JWST. Github: https://github.com/prkhrv/Understanding-Exoplanets-with-Data-Science

Holistic: A Flutter based Android/IOS application.   Sep 2021 – Oct 2021
- A Flutter based App which can be used to view, manage and maintain mental health. Used Flutter along with Machine Learning which helps in understanding user behavior thus providing perfect activities, diet plan to ensure good mental health. Github: https://github.com/prkhrv/Holistic

Farmerly: A Python and IoT based smart Irrigation system   Jan 2020 – May 2020
- An IoT based platform which automatically adjusts required moisture level in soil for a certain crop and enable automatic irrigation supply thus reducing the farming efforts by 30% and increasing the productivity by 25%. Github: https://github.com/prkhrv/smart-Irrigation-system-Python