KUNAL SHARMA

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EDUCATION

National Institute of Technology 2017 to Warangal 2021

B. Tech in Electrical and Electronics Engineering

SKILLS

LANGUAGES/FRAMEWORKS: TypeScript, NodeJS, NestJS, JavaScript, Python, C++ DATABASES: PostgreSQL, MySQL, MongoDB OUEUES: Kafka

DATA ENGINEERING: PySpark, Airflow LOGGING: OpenSearch, Cloudwatch CLOUD PLATFORMS: AWS, Azure OTHER INTERESTS: Astronomy, Graphic Designing

PUBLICATIONS

HCH DEX: A Secure Cryptocurrency e-Wallet & Exchange System with Two-way Authentication

IEEE, 2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)
DOI: 10.1109/ICSSIT48917.2020.9214122

Smart Boarding System with e-Passports for Secure and Independent Interoperability

Springer Nature Computer Science. 3, 52 (2022) DOI: <u>10.1007/s42979-021-00938-5</u>

ACTIVITIES

Assistive Technology Team, Innovation Garage (IG)

Working on technology solutions for **Visually Impaired(VI)**. Current Projects: Teaching geometry to VI kids, Navigation system for VI people.

Electrical Engineering Association, NIT Warangal

Served in **Event Conduction & Coordination** and **Design** teams.

E-Cell & E-Summit, NIT Warangal Served in Design and Event Conduction & Coordination teams.

Technozion, NIT Warangal

Managed a techno-marketing event named MAD MARKETING at the annual technical fest of NIT Warangal. The event was the only management themed event in the whole fest. It witnessed a participation of 400+ students.

VOLUNTEERING

 World Space Week, NIT Warangal (In association with WSWA and ISRO SDSC, SHAR)

Event Coordination and Public Relations. The event received a footfall of 15k in 2 days. ~80% of them were school children.

EXPERIENCE

MediBuddy

Software Development Engineer 1

Apr. 2022 to Current Bengaluru

Implemented key wallet ledger feature that increased conversions by 12%. (Angular)

- Implemented kafka queues, allowing operations to automated & streamline insurance claims process.
 (Kafka, TypeScript, NodeJS)
- Migrated MSSQL stored procedures to pyspark on EMR. (PySpark, Airflow, MSSQL)
- Automated doctor payout MIS reports generation, that helped finance save time and resources.
 (NodeJS, MySQL, Google API)
- Unified the end to end financial transactions flow, giving visibilty to business for an entire BU with xxCr/month revenue. (TypeScript, NestJS, MySQL, Athena, Redis)
- Single handedly designed & implemented a JSON based custom request workflow rule engine for reimbursement claims process to onboard multiple corporate flows. (TypeScript, NestJS, PostgreSQL)
- Designed & Implemented fraud detection logic to flag counterfeit bill invoices uploaded for reimbursement claims process based on dynamic rules. (TypeScript, NestJS, PostgreSQL)
- Extended fraud detection system to accept feeback from adjudicator, to increase accuracy of system, and create their own custom rules for each corporate flow. (TypeScript, NestJS, PostgreSQL)

ACT Fibernet

June 2021 to Apr. 2022

Management Trainee - Customer Anaytics

Technical Leadership Development Program (TLDP):

- Redesigned & Improved CSAT score capturing platform giving Marketing and Business leaders a visibility on customer satisfaction. (HTML, CSS, JS, PHP)
- Designed and Implemented a custom self hosted Customer App Analytics tool to capture metrics like user journey, friction points, user engagement, average session length helping them to better understand users. (Countly, MongoDB, Python, Parse)
- Integrated JWT based authentication, for the retailer portal used by field sales team. (TypeScript, NodeJS)

Aufenbach Oct. 2019 to Mar. 2020
Internship Warangal

Real-time Body Tracking for VR Applications:

- Developed a system through which user's physical activities are tracked using sensors.
- Users can walk inside computer simulation without any hand controls
- · Worked on design of system, data acquisition from sensors and conversion to useful format.
- Was able to convert the work done here into 2 research papers that were presented at various locations.

PROJECTS

Nov.

2021

Custom URL Shortener - smolink

- Shortens URL upto length 512 characters to 6 characters
- Able to redirect links and keep stats on the number of visits
- Users can set their own personalized URL
- Has HTTP Basic Authentication to view stats

Django Blog Website

- Blog website made using Django and deployed on PythonAnywhere, sqlite3 is db
- Users can:- Register new account, create, update, delete posts
- Choose a custom profile picture, View posts by individual user
- Change account username, email, password
- Request password reset email

Celebrity Face Recognition

- Dataset used 250+ images in 5 categories mined using web scraping
- SVC, Random Forest, Logistic Regression, OpenCV, Python, Flask
- End to end project with Web UI where user can drag and drop the image to classify
- Successfully achieved an accuracy of 82%

Bengaluru Real Estate Price Prediction

- Dataset used consists of 13,000 records with 8 independent features.
- $\bullet \quad {\sf Linear Regression, Decision Tree Regressor, Python, Flask}\\$
- End to end project with Web UI, user can input the features & get an estimate price
- Successfully achieved an accuracy of 86%

ACHIEVEMENTS

• Joint Entrance Examination (Advanced)

AIR: 7447 (GEN)

• Joint Entrance Examination (Main)

AIR: 6107 (GEN)

Top 0.5% of 1.3+ million students nationwide

• Science Olympiad Foundation

School Topper