RAHUL PAUL

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EDUCATION

UNIVERSITY OF NORTH CAROLINA   Charlotte, NC
Master of Science   Aug 2022 - May 2024
> Major in Computer Science; Minors in Data Science
> Relevant Coursework: Cloud Computing , Big Data Analytics , Software System Design & Implementation

OSMANIA UNIVERSITY   Hyderabad, INDIA
Bachelors of Engineering in Computer Science   Jul 2012 - Jul 2016

WORK EXPERIENCE

Software Engineer, DeepIQ   Aug 2019 – Aug 2022
- Led a team of developers to design and develop a Self Service {Data + AI} Ops platform (DataStudio 2.0), which facilitated efficient ETL phases such as data streamlining from various sources (including MYSQL, MongoDB, etc.) for advanced analytics, data visualization, and other critical operations with cloud integration (Azure, GCP)..
- Implemented End-End CI/CD pipeline for Automation Testing Infrastructure resulting in 45% decrease in production defects, while deployment automation led to a 40% faster release cycle.
- Implemented Full Stack code blocks DataSources to run on Cloud (Databricks, AWS) for ML Models.
- **Technologies**: Angular 6,React,Redux,Typescript, Node JS, Java, Express Js, MySql, Cypress, Jest, Azure DevOps, Databricks, PySpark.

Senior Staff Software Engineer, **Intelex Systems**   Jan 2017 – June 2019
- Designed and developed Connect Doctor , a user-friendly & creating cross-browser platform enabling medical appointments and secure video consultations. Ensured compliance with regulations and implemented robust data security.
- **Technologies**: IONIC 4, Android, IOS/ Typescript, jQuery, REST API , NodeJs,Express JS, MongoDB/ NGINX
- Designed and developed an Enterprise web portal for clients to streamline their payroll operations and automatically generate government and tax forms for the financial year, ensuring compliance with IRS regulations and requirements.
- **Technologies**: Angular, Typescript, NPM, Mocha, Jest, D3Js, AngularUI, java, Spring Boot, AWS Cloud (EC2, S3).
- Spearheaded the design and development of a job portal on web and mobile that utilizes patented algorithms to match employees/clients with suitable employers based on preferences and qualifications. Increased job matches by 50% resulting in a 30% increase in revenue and Utilized React Js, React-Native/Javascript.
- Developed a robust ecommerce website called Revolutions.com using Angular, NodeJS, Express Js/Typescript, and JavaScript to showcase products with features such as modular authentication system, secure payment processing, and responsive design.

PROJECTS

Online Dating Platform: (Node.JS, ExpressJs, Socket.io, Postgres, ReactJS, Google maps API, Faker API's) *View Project*
- Developed and designed a web application which efficiently suggests profiles based on preferences.
- Implemented Restful API architecture including authentication and authorisation using JWT tokens, personalized account info and settings, real time messaging system.

Pekin Search: (NodeJs, ExpressJs, ReactJS, Python,Django, scikit-learn, 'sentence-transformers' model,Figma) *View Project*
- Developed a cutting-edge Research and Analysis Tool powered by Machine Learning and A.I., which empowers users to efficiently analyze social media posts about specific products on Twitter and filter them on gender, location, and dates.

Query Verse : (Golang, gin gonic, Socket.io, Postgres, ReactJS,Postman, Rest API, Prompt Engineering,Figma) *View Project*
- Developed Sass Product to generate images on customizable prompts using DALL·E 3.
- Built Open Source Golang wrappers for Prompt Engineering ,automating image generation processes.

Discovered Patterns of Traffic: (Python, OpenCV, Pytorch) *View Project*
- Implemented an K means Clustering algorithm to detect traffic anomaly. Incorporated Genetic Algorithm to identify optimal initial parameters for the K means Clustering, achieved 89% accuracy.

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, JavaScript, TypeScript , Golang , NestJs, NgRx.
Databases: SQL Server, MySQL, MongoDB, Postgres, DynamoDB, Redis, Apache Kafka
Frameworks: NodeJS, React.JS, Redux, Express, Angular, Spring Boot, Mocha, Chai, Flask,Jest,Karma,Selenium,Karma
Cloud Technologies: AWS Cloud (EC2, S3, Lambda), Docker, Kubernetes,Jenkins CircleCI.