DANE UKKEN

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WORK EXPERIENCE

Software Developer - Fidelity Investments, India   July 2019 - July 2022

Tech stack: **Java, Spring Boot, C#, .NET Core, React JS, Javascript, ElasticSearch, RabbitMQ, SQL Server, HTML5, CSS, Docker**

- Developed and maintained a .NET Core WebAPI microservice app, creating **scalable REST API** endpoints and integrating advanced analytics **visualization charts in a React** application, and automated builds and deployments with **Jenkins CI/CD pipelines**
- Streamlined the ETL pipeline by simplifying SQL queries and implementing incremental data retrieval with Logstash, reducing runtime by **55% for daily loads of 100M+ records**.
- **Developed and dockerized a .NET Core microservice** to integrate ticket creation with Salesforce, improving Customer Support's ticket management efficiency.
- **Developed a PDF branding feature,** enabling financial advisors to personalize documents, thereby enhancing brand recognition and marketing effectiveness.

Associate Software Developer - Fidelity Investments, India   July 2018 - July 2019

Tech stack: **C#, .NET Core, React JS, ElasticSearch, SQL Server, CSS**

- Developed the Client Benchmarking feature, **enabling advisors to benchmark clients against peers** using key metrics like net worth and total salary, enhancing data-driven client analysis and decision-making.
- **Successfully migrated from Elasticsearch** version 2 to version 5, improving search performance by 30%. Addressed compatibility issues and optimized queries for system stability.

Software Developer Intern - Resi Media, TX   May 2023 - Aug 2023

Tech stack: **React JS, Redux, Emotion CSS, Typescript, Javascript, Playwright, Jest, Docker**

- **Refactored components** and made **pages responsive**, enhancing user experience and increasing mobile traffic by 10%.
- Enhanced **component library** by adding **components**, which were subsequently utilized in downstream applications to enhance consistency and streamline development.

PROJECTS

Secure It - Encrypted File System (Git) - Java   Jan 2024

- Developed an encrypted file system in Java, implementing robust security measures for data protection. Implemented robust security measures using **AES encryption** with Counter (CTR) mode, HMAC for data integrity, and secure password hashing to ensure data protection and authenticity.

Medical Named Entity Recognition - BERT (Git) - Python, PyTorch   May 2023

- Developed a Medical NER model using pre-trained BERT and ALBERT models. Achieved an F1-score of 0.8726, by fine-tuning BERT on the i2b2/n2c2 dataset, containing annotated clinical notes

Facial Expression Recognition (Git) - Python, Keras, Jupyter, OpenCV   Jan 2024

- Benchmarked the performance of popular pre-trained models like VGG16, ResNet50, on the FER2013 dataset. Also experimented with preprocessing strategies including face detection, alignment using OpenCV libraries to improve accuracy

Planet - Event Planner (Git) - React, Next.js, Redux, Passport.js, MongoDB, Jest, Docker   Dec 2023

- Implemented a **Next.js event planning application with Passport.js**, integrating role-based authentication to support organizer-driven event creation, user-secific actions, and enhanced attendee engagement.

EDUCATION

University of Texas, Dallas - Master of Science in Computer Science   Aug 2022 - May 2024

Courses: Analysis of Algorithms, Machine Learning, Operating Systems, Big Data   *GPA: 3.75*

National Institute of Technology, Trichy - Bachelor's in Electrical and Electronics Engineering   Aug 2014 - May 2018

SKILLS

Languages: C#, Java, Javascript, Python, SQL, C/C++, Shell scripting

Backend: ASP .NET Core, Spring Boot, Flask, PySpark, NUnit, RabbitMq

Frontend: React, Redux, Next.js, HTML, Tailwind CSS, Jest, Enzyme

Databases: SQL server, PostgreSQL, MySQL, ElasticSearch, MongoDB

DevOps and Cloud Platforms: Docker, AWS, GitHub Actions, Jenkins, Kubernetes