ASHWIN NAIR

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EDUCATION

Northeastern University, Boston MA Sep 2023 – Expected May 2025
Master of Science in Information Systems GPA-3.84
Related courses: Program Structure and Algorithms, Web Development, Database Management and Design, AED (Java)

University of Mumbai, India Jun 2015-Apr 2019
Bachelor of Engineering GPA-3.30
Related courses: Structure Query Language(C++), Database Management Systems

TECHNICAL SKILL

Languages: Java, C/C++, C#, Python, HTML/CSS, JavaScript, TypeScript, Solidity
Database: MongoDB, MySQL, SQL Server, PostgreSQL, Firebase
Tools: Git, Postman, Windows, Ubuntu, Eclipse, NetBeans,Docker, Kubernetes, Jira, Bootstrap,Figma
Cloud Platforms and Analytics: AWS(EC2, Lambda, S3), Pandas, Seaborn, Matplotlib, Scikit-learn, Excel, Power BI

WORK EXPERIENCE

Pridevel Technologies Limited, Mumbai, India Sep 2021 – Aug 2023
Software Development Engineer (Full-Stack)

- Spearheaded the development of a scalable, modular rewards system using **React.js** and **Node.js**, enhancing user engagement by enabling easy integration for developers and projecting a 25% increase in user interactions
- Deployed 5 key components with **Docker**, utilizing CI/CD to reduce release cycles by 30%, enhance maintainability, and boost efficiency by 20%. Used **AWS S3** for image and asset storage.
- Crafted robust **RESTful APIs** and integrated real-time price charts for 1200+ cryptocurrencies using Chart.js and CoinGecko API, significantly enhancing user decision-making through real-time, detailed crypto market insights.
- Optimized **MongoDB** schemas for three major projects, achieving a 40% improvement in query performance and application responsiveness through strategic multi-document transactions and aggregate functions.
- Analyzed over 500K records using **Pandas and BigQuery**, crafting SEO-enhanced content that improved search engine rankings and boosted organic traffic by 35%, effectively attracting new platform users.

R K Controls Pvt. Ltd., Mumbai, India Jan 2020 – Jan 2021
Data Analyst

- Redesigned inventory reporting process using **Python**, leveraging pandas and Matplotlib, to automate a laborious 3+ hour task, enhancing accuracy and reallocating hours towards strategic analysis.
- Built a robust internal web application for spare parts ordering using **HTML, CSS, and JavaScrip**t, integrating real-time ERP data to cut order delays by 15% and elevate operational efficiency.
- Developed and executed complex **SQL** queries to produce over 5 weekly reports for stakeholders, enabling more precise data-driven decisions that optimized resource allocation and fortified inventory management practices.

ACADEMIC PROJECTS

Verbello | *(MongoDB, React.js, Node.js, JWT) [Link]*

- Led the design and development of Verbello, a gamified language learning platform(5 languages) , using React, Node.js, MongoDB, and Redux, which features interactive quizzes and immersive content, enhancing user engagement.
- Integrated advanced features like real-time translation and text-to-audio capabilities into Verbello, significantly improving accessibility and comprehension for users across diverse language backgrounds.
- Engineered robust user authentication for Verbello using Google and Microsoft OAuth with JWT for session management, greatly enhancing security and user trust by safeguarding personal and session data.

OrderHub | (SQL Server, React.js, Node.js, Power BI) *[Github]*

- Designed and maintained a robust SQL database for the OrderHub - Food Ordering Management System, integrating 12 entities including Orders, Menu Items, and Delivery Executives, to efficiently handle and manage simulated data.
- Leveraged advanced SQL techniques, creating 7 views, 5 stored procedures, 3 UDFs, and 2 triggers for real-time analytics, which improved inventory management, order tracking, and delivery updates.
- Utilized Power BI to create 4 interactive visualizations, providing insights into order fulfillment, inventory turnover, and overall system performance, facilitating better analysis and decision-making.

Personal Movie Recommender | *(Pandas, Machine Learning, Angular, Node.js, scikit-learn) [Github]*

- Created a Hybrid Movie Recommendation System for a dataset of 27,000 movies, integrating Content-Based and Collaborative Filtering techniques to personalize movie suggestions and enhance user engagement.
- Utilized TF-IDF for text analysis and Singular Value Decomposition (SVD) to reduce text features by approximately 91%, significantly improving feature extraction and increasing recommendation precision.
- Implemented a Real-Time Recommendation Engine using Cosine Similarity, tailoring movie selections to user preferences and search behaviors, which resulted in a noticeable boost in user satisfaction.