Arvind Jei

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EDUCATION

Master of Science in Computer Science, The University of Texas at Dallas, *Aug 2023 – May 2025(Expected)* **Dallas, Texas**
- Pursuing Coursework: Database Design, Machine Learning, Design and Analysis of Computer Algorithms

B. Tech in Computer Science and Business Systems, **SRM Institute of Science and Technology,** *May 2023* **Chennai, India**
- **GPA: 3.98/4**
- Coursework: Enterprise Systems, Artificial Intelligence, Usability Design of Software Applications

EXPERIENCE

Software Engineer Intern @ Momentum India, *Mumbai, Jun 2022-Sep 2022* **(Node.js, MySQL, Angular, Express.js, JavaScript)**
- Directed the development of new modules within the flagship web application, streamlining relational table structures and crafting high-performance REST APIs, leveraging a Node.js, MySQL, and Express.js stack
- Leveraged Microsoft PowerApps, a robust rapid application development platform, to accomplish a notable 20% reduction in manual workloads, effectively optimizing and streamlining our internal auditing processes
- Collaborated with cross-team members to define objectives, reviewed requirements, and established key performance indicators (KPIs) to measure progress, ensuring a focused effort on enhancing the UX with quantifiable goals.

Data Scientist Intern @ AssetPlus Consulting, *Noida, Feb 2022 - Mar 2022* **(Python, Image Processing)**
- Collaborated with a team of data scientist interns to design and optimize KNN algorithms for both text and digit recognition, leading to a reduction in model training time by 25% and increased overall efficiency.
- Performed extensive evaluations of diverse machine learning algorithms for text and digit recognition, offering insights to inform algorithm selection and enhance model accuracy
- Attained a 5% improvement in accuracy by optimizing model performance through parameter fine-tuning

PROJECTS

Resume Screening App using NLP (Nov 2022 – Mar 2023) **(Python, Flask, Scikit, NLTK)**
- Implemented information extraction techniques with NLP and cosine similarity modelling to rank candidate resumes
- Heightened filtering accuracy by 10% by streamlining model parameters and diminishing false positives in candidate screening, ensuring more effective talent filtering

Social Media App Prototype – Facebook Clone (Nov 2021) **(React.js, Node.js, Express.js, MongoDB)**
- Developed a social media web app with a complete login authentication system as mini project coursework
- Optimized API endpoints through an iterative refinement process, resulting in a 10% reduction in data retrieval time

COVID-19 Case Tracker (Sep 2021) **(Java, Spring Boot)**
- Created a web app to track COVID-19 cases globally using a server-based CSV data extraction and parsing system.
- Engineered a HTTP based data retrieval system that efficiently processed and updated COVID-19 case information every 24 hours, ensuring users had access to the latest statistics

PUBLICATIONS & RESEARCH WORK

- **Arvind Jei,** Ushashish Chandra, Anand Madasamy (2023); Natural Language Processing Based Screening for Applicant Tracking Systems, *In proceedings of the International Conference on Recent Trends in Data Science and Its Applications 2023 (IRCTDA 2023), IEEE* **(Accepted, to be published)**

AWARDS & ACHIEVEMENTS

- Presented **"**Natural Language Processing Based Screening for Applicant Tracking Systems" in the **International Conference on Recent Trends in Data Science and its Applications (IRCTDA 2023)**
- **1st in Academic Proficiency**, Cambridge International Examinations (IGCSE), 2019, 2018, 2017, 2016
- **Cambridge International Certificate of Education (Merit),** Cambridge International Examinations (CIE), 2016

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, JavaScript, C
- **Frameworks/Libraries**: Scrapy, Scikit Learn, NLTK, Node.js, Spring Boot, Angular, Flask, Spring
- **Database Management**: MySQL, MongoDB, SQL, NoSQL
- **Tools**: Git, Visual Studio, VSCode, Eclipse, IntelliJ IDEA

CERTIFICATIONS AND PROFESSIONAL TRAINING

- **Introduction to DevOps,** IBM, Mar 2023
- **The Bits and Bytes of Computer Networks**, Google, Feb 2022
- **The Complete Web Development Bootcamp** – Udemy, Jan 2022
- **AWS Web Services**, Department of Computational Intelligences, SRM IST, Oct 2021
- **Java Web Services and Restful API with Spring Boot**, Udemy, Jul 2021
- **Microsoft Cloud Computing and Azure**, Microsoft, Sep 2019