Badrinath Vasudevan

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LinkedIn   Portfolio   GitHub

EDUCATION

University of Windsor   **Sep 2021 – May 2023**
Master of Science in Applied Computing   Windsor, Canada
- **Relevant Coursework**: Advanced Software Engineering, Advanced Computing Concepts and Advanced Database

SRM Institute of Science and Technology   **Aug 2016 –-Jun 2020**
Bachelor of Technology in Computer Science   Chennai, India
- **Relevant Coursework**: Data Structures, Algorithm Design and Analysis, Object Oriented Programming and Database Management Systems

WORK EXPERIENCE

SAP   **Sep 2022 - Present**
Support Engineer Intern   Vancouver, Canada
- Investigated infrastructures and code changes for root cause analysis to resolve critical production scenarios.
- Analyzed JavaScript, XML, and SQL code to find and fix complex technical issue.
- Reduced the number of critical instances by using Unix/Linux in troubleshooting and administration.
- Used a variety of database applications to analyze the problem and identify its root cause.

Tata Consultancy Services   **May 2018 - Jun 2018**
Software Intern   Chennai, India
- Developed a program to predict the appropriate treatment plans for given patients utilizing Python, Pandas and Scikit-learn libraries to provide a suitable treatment plan faster and potentially lower the treatment expense.
- Achieved an accuracy rate of 97% in predicting their treatment plans by collecting relevant data on the disease, selecting informative features for prediction, trained the model using the data and evaluated its performance
- Refined the model iteratively to improve accuracy and reliability.

PROJECTS

FoodHunter (GitHub Link)   **Mar 2022**
- Designed and programmed a restaurant recommendation application using React Native, Python (PySpark) and PostgreSQL
- Created an ALS model and predicted user's restaurant recommendation.
- Designed and developed the application's frontend using React Native.

Search Engine (GitHub Link)   **Dec 2021**
- Built a web search engine that leverages data from scraping and obtained results based on users' queries and preferences using Java.
- Achieved an average turnaround time of less than 5ms per request after applying multiple algorithms and data structures including Boyer Moore algorithm, hash tables, and merge sort.

UWinCare (GitHub Link)   **Dec 2021**
- Designed and implemented a cross-platform mobile application focused on improving mental health, where users can share experiences through posts and messages and seek help from mental health experts within the application.
- From the available list on the "Find expert" tab, users have the choice to select a health professional that aligns with their specific needs and preferences.
- Created, updated and maintained the application's frontend using JavaScript and TypeScript, following a SCRUM methodology to ensure a user-oriented iterative development process.
- Implemented the cross-platform application using Ionic, Node.js and integrated RESTful API with web services.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, HTML5, PHP, CSS3
- **Frameworks**: React, React Native, Ionic, Django, Pandas, Scikit-learn
- **Tools and Databases**: Jupyter Notebook, SQL, MongoDB, MS-SQL Server, Azure, Wireshark
- **Operating Systems**: Microsoft Windows, Linux
- **Concepts**: Software Development Lifecycle (SDLC), Agile Methodology and JIRA