

Badrinath Vasudevan

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[LinkedIn](#) [Portfolio](#) [GitHub](#)

EDUCATION

University of Windsor

Master of Science in Applied Computing

Sep 2021 – May 2023

Windsor, Canada

- **Relevant Coursework:** Advanced Software Engineering, Advanced Computing Concepts and Advanced Database

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science

Aug 2016 – Jun 2020

Chennai, India

- **Relevant Coursework:** Data Structures, Algorithm Design and Analysis, Object Oriented Programming and Database Management Systems

WORK EXPERIENCE

SAP

Support Engineer Intern

Sep 2022 - Present

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

Software Intern

May 2018 - Jun 2018

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