

# HARIPRAKASH VELMURUGAN

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## EDUCATION

### Master in Computer Science

Arizona State University

Coursework: Artificial Intelligence, Distributed Database Systems, Blockchain, Machine Learning, and Data Mining.

December 2024

Tempe, AZ

## TECHNICAL SKILLS

**Programming languages :** Python, JavaScript, Rust, SAP ABAP, SAP Fiori, C/C++.

**Web Development :** HTML, Bootstrap, Typescript, React, Node.js.

**Databases :** MySQL, NoSQL, PostgreSQL, MongoDB, Kibana, Elasticsearch, Redux.

**Frameworks/Tools :** Postman, Jira, Git, Agile, Scrum, Microservices, Docker, Firebase, AWS, Kubernetes.

## PROFESSIONAL EXPERIENCE

### Senior Associate

Jan 2022- December 2022

PriceWaterhouseCoopers

- Spearheaded optimization of backend OData services, trimming processing time by 40% and enhancing system reliability.
- Worked collaboratively on a scrum team of approximately 6 to 8 developers and testers, contributing to the development and delivery of high-quality software product and documentation.
- Performed refactoring, bug fixing, and upgrades of tools and libraries in existing codebase to maintain code quality and improve system efficiency.
- Collaborated with team members to identify areas for improvement and implement enhancements to optimize performance and user experience.
- Managed diverse projects for 10+ clients across various sectors, meeting and exceeding project requirements and expectations.
- Mentored and led a team of 4, imparting expertise in software development.

### Associate

August 2018 - December 2021

PriceWaterhouseCoopers

- Developed a Production Lifecycle Analytics Dashboard using UI5 libraries, OData protocol, RESTful API, and HANA database, applying Agile methodologies to streamline operations. Achieved a 40% reduction in manual efforts and a 30% cut in expenses, winning the SAP ACE award.
- Led a cross-continental offshore team to enhance analytics on dairy product sales and distribution for a leading dairy firm in Costa Rica.
- Improved overall ticket resolution by 35%, by implementing Agile practices and fostering strong communication channels, driving client satisfaction and process optimization.
- Architected and deployed a Travel Management web app for a Steel Conglomerate, reducing operational costs by 40%.

### Software Developer Intern

January 2018 - June 2018

Invento Robotics

- Delivered an Android app on the Play Store, serving as a remote control for the Mitra robots helped customers to navigate the robot with ease and improve usability by 40%.
- Prototyped machine learning tools to recognize human faces and implement NLP in an app with 85% accuracy. Leveraged AWS S3 bucket to store images and EC2 instance to run python algorithms script.
- Fixed production level bugs with quick resolution time and conducted weekly code review. Worked on nvidia jetson GPU hardware

## PROJECTS

### CRUD Application using Rust

January 2024 - April 2024

- Implemented a CRUD application in rust using SQL database.

### Heart Disease Prediction Model

August 2023 - November 2023

- Developed and deployed a classification pipeline for heart disease prediction, integrating web scraping, feature engineering, and exploratory data analysis techniques. Achieving 90% accuracy and enabling early intervention.

### Flex Net Content Delivery System

August 2023 - November 2023

- A content delivery network using Python. Includes implementing caching for improved performance, security measures, and real time monitoring. Used Kubernetes and deployed MongoDB, PostgreSQL for data management..

### Software Verification Project

January 2024 - April 2024

- Used Combinatorial, Mutation, Fuzz techniques to test the software which display discount code based on user details.

### Social blog Website

August 2023 - November 2023

- Created a feature-rich blogging platform using MongoDB, Express.js, React, and Node.js, Firebase integrating user authentication, likes, comments, notifications, and profile viewing.