

DIVYA REDDY

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EDUCATION

Master of Computer Science, University of Ottawa Expected 2024

Relevant Coursework: Software Development, AI-enabled software Verification and Testing, Business Communication and Influence, AI-virtual assistants, Object Oriented Programming

- Teaching Assistant for Course: CSI2120 - Programming Paradigms (Go, Prolog, Scheme)

Bachelor of Computer Science, CMR Institute of Technology (9.13/10) 2017 - 2021

Relevant Coursework: Web development, Big Data, Algorithm Design and Analysis, Data Structures, Database Management Systems.

- Placement Department Coordinator - Managed placement events, training, presentations, web conferences, and data maintenance
- Department Topper in 1st and 8th semesters of Undergraduate course (Computer Science).
- Member and Organizer of the CodeChef and ART club at CMRIT

SKILLS

Programming Languages	Java, Node.js, JavaScript/TypeScript, C, Python, HTML, CSS, PHP, SQL
Frameworks and Tech	React.js, Three.js, PHP Laravel, Jest, Flask, Serverless framework, XML, AJAX, JQuery
Cloud Technologies	Amazon AWS, Google cloud platform, REST API, Postman, Git/Gitlab, Docker, Datadog Tagging, SQL Server
Development Tools	VS Code, pyCharm, Eclipse IDE
Other Skills	Power Automate, Power BI, Data Analysis and Visualization, Data Structures, Algorithms, DBMS, API Development

EXPERIENCE

Hydrometric Program Developer - coop May 2023 - Present
Environment and Climate Change Canada *Gatineau, QC, CA*

- Achieved a significant 60-70% boost in data processing speed by developing highly efficient data retrieval scripts for various APIs.
- Utilized Power BI to create interactive dashboards and implemented Power Automate for automated data flow visualization and management.
- Conducted a 40% performance enhancement of a Flask application, resulting in a more responsive system for better user experience.
- Engineered scripts to optimize data retrieval, transforming API outputs into CSV files, facilitating targeted data analysis.
- Enhanced website speed and user experience by engineering custom APIs and implementing Plotly.js maps for faster loading, improving data visualization, accessibility, and insights.
- Automated data updates through scripted cron jobs for database maintenance and real-time data retrieval.

Graduate Teaching Assistant and Corrector Sep 2022 - April 2023
University of Ottawa *Ottawa, ON, CA*

- Course: CSI2120 - Programming Paradigms (Jan 2022 - April 2023)
- Course: CSI4124/SYS5110 - Foundation Modelling and Simulation (Sep 2022 - Dec 2022)

- Conducted tutorial sessions, delivering clear explanations and guidance on course materials and concepts to support student learning.
- Coordinated proctored term tests for a large class of 200+ students and graded assignments and test solutions.

Software Application Developer

Koch Business Solutions

March 2021 – July 2022

Bangalore, India

- Enhanced user experiences by developing backend services and creating a structured repository for a web application with a React-based frontend, resulting in increase in user satisfaction
- Migrated the logistics backend of a web application from PHP Laravel to TypeScript, leading to a 30% performance improvement and higher maintainability.
- Streamlined testing procedures, including the implementation of unit tests with code coverage analysis and integration tests. This ensured improved application reliability and scalability.
- Conceptualized and executed Lambda functions integrated with an API Gateway, enabling real-time transaction tracking and retrieval, reducing transaction time by 25%.
- Integrated robust error handling mechanisms, including Datadog tagging and CloudWatch log monitoring, resulting in a 50% reduction in critical incidents.
- Created and maintained RESTful APIs and integrated GraphQL APIs to facilitate seamless data communication within the application.

PROJECTS

Virtual Pinboard

[Link](#)

- Conducted extensive research on augmented reality (AR) and developed a responsive web app for users to interact and publish pinboards using markerless AR.
- Technologies: Three.js, HTML, CSS, JavaScript, jQuery API, Geolocation API, WebXR device API, PHP, MySQL database, Google Cloud Platform

World travel guide

[Link](#)

- Led the development of a comprehensive world travel guide with a wishlist feature, resulting in a 20% increase in user engagement. Engineered an interactive globe using Three.js to enhance user exploration and provide personalized travel recommendations.
- Technologies: Three.js, PHP, SQL, JavaScript

E-commerce Store

- Designed and constructed a robust e-commerce platform, expanding the reach and sales of artwork. Seamlessly integrated PayPal for secure online payments, resulting in a 25% increase in online sales.
- Technologies: JavaScript, PHP, PayPal REST API, Google Cloud Platform

PUBLICATIONS / RESEARCH

Published Paper: "Virtual Pinboard - A Method for Displaying Information using Web-Based Augmented Reality on Smartphones." This paper proposes implementing virtual pinboards using a marker-less approach to augmented reality.[Link](#)

CERTIFICATIONS

- Data Structures with Python, Python for Data Science, Discrete Mathematics, R programming: Specialized course certified by CMRIT
- Udemy - Web Design for Web Developers