

S. VIGNESH KUMAR PANDIAN

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EDUCATION

Masters in Computer Science

Georgia State University

2023 - Expected 2025

GPA - 4.24 out of 4.0

SKILLS

Languages	C, C++, Java, Python, PHP, Ruby, Javascript, Typescript
Web Development	NodeJS, Express, PHP, ASP.NET, DevOps, HTML, HTMX, CSS, AJAX
Frameworks	React, Angular, Ruby on Rails, Flutter, Django, Flask
Cloud	AWS, GCP, Azure, Docker, Kubernetes
DBMS	SQL, MongoDB, Oracle, PostgreSQL, ActiveRecord, SQLite

WORK EXPERIENCE

Graduate Research Assistant - Georgia State University

Jan 2024 - Present

Developed and implemented several Auto-encoder models for representation learning of 4-D speckle data.

Senior Officer - GAIL India Ltd.

Sept 2021 - Jul 2023

Responsible for application development and created 10+ applications using ASP.NET, Oracle for web and flutter for mobile application development. Supervised and monitored IT infrastructure. Created multi-threaded script to automate manual checking of network devices reducing time from 2+ hrs to 12 seconds.

SDE Intern - Amazon

May 2020 - Jun 2020

Responsible for developing dashboard(IMR) for hierarchical resource utilization (AWS and non-AWS) with script to scrape data every month for dynamic content display for actual and predicted utilization aggregated monthly and weekly and top 5 and bottom 5 resources utilised.

Winter Training/Internship - Jio Reliance

Dec 2019 - Jan 2020

Created an Asset management system to dynamically allocate, track, and handle bulk data using PHP and MySQL thereby eliminating and automating manual bookkeeping and faster retrieval of data.

PROJECTS

Trip Reporting and Assessment System(TRAS): Trips/Breakdown reporting is a time-sensitive issue needed to be addressed meticulously before restarting. TRAS ensured compliance to incident reporting by enforcing 24 hour time limit to report as opposed to manual reporting which was . It also kept track of the flow of actions taken by each department and corresponding verification by concerned departments.

Online Bus Booking System Mobile Application: Created mobile application(iOS and Android) using flutter for seat reservation of various bus layouts to various locations to track and manage bookings and automated the process previously managed by HR.

Contract Manpower Management System: Created a application to track contract manpower and status of contractual obligations of vendors and enforcing statutory compliance related to wages, PF, bonus, forms, etc in a timely manner and automatic alerts to EIC, HOD, etc in case of non-compliance. Created several dashboards for monitoring and tracking status of contractual obligations

Volunteer Allocation System Created dashboard in React to allocate volunteers/first responders having certain skills to requesters in need of certain skills based on EM algorithm during the times of disasters.

La Vie An android application that allows people to request blood from donors by sending notifications to nearby matching donors(1km radius) expanding the radius in incremental fashion(2km every 10 min) until acceptance using geo-location. The location of donors is static input at the time of registering.

RESEARCH PAPERS

AMOS Conference 2024 - Representation learning of Sparse speckle data for atmospheric turbulence detection

CERTIFICATIONS

Udemy: Web Developer bootcamp, MERN Development, (Docker & Kubernetes)