VINAY SRAMPICKAL JOSEPH

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EDUCATION

Northeastern University, Boston, MA — Sept. 2019 - Present
Khoury College of Computer Sciences — Expected Graduation: Dec. 2021
Candidate for a Master of Science in Computer Science — GPA: 4.0/4.0
Related Courses: Programming Design Paradigms, Web Development, Algorithms, Foundations of Artificial Intelligence, Robotic Science and Systems, Information Retrieval

Mahatma Gandhi University, Kerala, India
Bachelor of Technology in Electronics and Communication — Aug. 2012 - June 2016
Related Courses: Computer Programming, Computer Architecture and Parallel Processing

TECHNICAL KNOWLEDGE

Programming Languages	: Java, Python, JavaScript ES6, TypeScript
Framework	: Node.js, React.js, Express.js
Database	: MySQL, DynamoDB, MongoDB
Web Technologies	: HTML, CSS, jQuery, Bootstrap
Services	: AWS (Lambda, API Gateway, Cognito, Lex)
Other	: NumPy, Git, IntelliJ IDEA, VS Code, Agile, Scrum

WORK EXPERIENCE

Vistan Health — Boston, USA
Software Engineering Intern — May 2020 - Aug. 2020

Physician Portal | React.js, Node.js, DynamoDB, Lambda, API Gateway, Cognito
- Contributed as a Full Stack Developer to develop a web application for Physicians to monitor Patients. Built authentication module to secure backend APIs using Cognito
- Created a chatbot using Amazon Lex that can help patients resolve health queries and connect with physicians. Wrote and reviewed code in 2 languages JavaScript and Python
- Represented Vistan Health at the MIT COVID-19 Challenge and the Crisis Challenge Innovation Competition

Cognizant Technology Solutions — Bangalore, India
Software Engineer — Jan. 2017 - Aug. 2019

Claimcheck suite Replacement – ClaimsXten | Java
- Developed automated claim processing tool using Java and Selenium, which expedited processing of claims by 10%
- Built a production tool to generate complex queries using VBA to help associates without knowledge in SQL to retrieve details from database on to an Excel sheet

Facets Upgrade | Java
- Led the R&D team to find a solution in automating the web-based screens inside windows-based FACETS by integrating Winium and Sikuli to Cognizant's CRAFT framework to achieve 100% automation

ACADEMIC PROJECTS

Just Dream Flight Booking | Node.js, React.js, MongoDB, Bootstrap, Heroku, Git
- Created a Single Page Web Application using the MERN stack that provides a platform to book flight tickets and implemented all the CRUD operations on bookings and passenger details
- Developed backend Rest APIs and MongoDB to store and manipulate flight and passenger details
- Handled authentication of users using Google Sign-In for Websites, managed user sessions

Object Perception | OpenCV, Python, ROS
- Tracked an object in a video using feature matching in real-time using OpenCV and determine its 3D position and orientation using quaternion
- Compared calculated pose to ground truth using ROS package AR Track Alvar by tracking an AR tag affixed on object

Image Processing Application | Java, Git
- Collaborated on building an Image processing application in Java that performs image generation and color transformation operations using MVC architecture and design patterns
- Designed a UI using Java Swing that displays an image and supports applying 6 filters such as sepia, greyscale, mosaic, dither, blur, sharpen

OpenAI Gym LunarLander using Reinforcement Learning | Python, TensorFlow
- Devised an agent in Python to solve the OpenAI Gym LunarLander game by implementing Q-Learning and Approximate Q-Learning algorithms
- Trained a Neural Network with two hidden layers using TensorFlow and solved LunarLander game using Policy Gradient algorithm