VINAY SRAMPICKAL JOSEPH

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Available: Jan. 2021 - Aug. 2021

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 in C

TECHNICAL KNOWLEDGE

Programming Languages	: Java, Python, JavaScript ES6
Data Management	: MySQL, AWS DynamoDB, MongoDB
Web Technologies	: HTML, CSS, jQuery, Bootstrap
Framework	: Node.js, React.js, Express.js, Selenium, Winium
Services	: AWS (Lambda, API Gateway, Cognito, Lex)
Tools	: MATLAB, NumPy, GitHub, MS Office, ROS, ServiceNow

WORK EXPERIENCE

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

- Designed a Full-stack web application using React.js, authenticated using AWS Cognito, and built APIs using AWS API Gateway, Lambda, and DynamoDB
- Created a chatbot using Amazon Lex that can help patients resolve health queries and connect with physicians
- Researched design of a smart wearable device to monitor patient's daily activities and vital signs
- 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

- Expedited processing of claims by developing an Automated Claim Processing tool using Winium
- 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
- Integrated Winium and Sikuli to Cognizant's CRAFT framework to achieve 100% automation in TriZetto Facets
- Led the ServiceNow team, which performed automation on various ITSM and Non-ITSM modules
- Coordinated onboarding and mentoring of new hires in the team

ACADEMIC PROJECTS

**Just Dream Flight Booking	Node.js, React.js, MongoDB, Bootstrap, Heroku, Git**	Aug. 2020

- Created a Single Page Application using the MERN stack that provides a platform to book flight tickets and implemented all the CRUD operations on bookings and passenger details
- Integrated with Amadeus API to get flight information and developed backend APIs using REST API and MongoDB
- Handled authentication of users using Google Sign-In for Websites, managed different user profiles

**Object Perception	OpenCV, Python, ROS**	Apr. 2020

- 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**	Nov. 2019

- Constructed 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 image and supports all functionalities and a command-line interface that can batch process multiple images

**OpenAI Gym LunarLander using Reinforcement Learning	Python, TensorFlow**	Nov. 2019

- 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
- Analyzed and documented agent's performance by varying hyperparameters Alpha and Epsilon