VINAY SRAMPICKAL JOSEPH

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EDUCATION

Northeastern University, Boston, MA	September 2019 - Present
Khoury College of Computer Sciences	Expected Graduation: August 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	August 2012 - June 2016

Related Courses: Computer Programming, Computer Architecture and Parallel Processing

TECHNICAL KNOWLEDGE

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

WORK EXPERIENCE

Vistan Health	Boston, USA
Software Engineering Intern	May 2020 - August 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	January 2017 - August 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

Plagiarism Detector | Node.js, React.js, TypeScript, Bootstrap, Git
- Deployed a web application that detects plagiarism between two JavaScript programs and allows users to compare similarities in the code
- Designed an algorithm to identify strategies to avoid detection such as renaming variables, extracting code into functions, moving code, changing comments using Abstract Syntax Trees (AST)

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

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