

Vishnu Gopal Rajan

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Software Development Engineer
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EDUCATION

THE UNIVERSITY OF TEXAS AT ARLINGTON

MASTER'S IN COMPUTER SCIENCE
Aug 2019-May 2021 | GPA: 3.5/4.0
Arlington, Texas

BANGALORE INSTITUTE OF TECHNOLOGY

BS IN COMPUTER SCIENCE
Jun 2015-Jun 2019
Bangalore, India

LINKS

Github:// [VishnuGops](#)
LinkedIn:// [VishnuGops](#)
Website:// [VishnuGops](#)

SKILLS

PROGRAMMING

Languages

- Java • C++/C • JavaScript
- Python • HTML/ CSS • SQL

Tools

- Pytorch • Kubernetes • GCP • AWS
- Hadoop

Database:

- MySQL • MongoDB • PostgreSQL
- GCP Firebase, BigQuery

COURSEWORK

GRADUATE

Computer Vision
Autonomous Robotics
Cloud Computing
Intelligent Systems HCI
Advanced Database Systems

UNDERGRADUATE

Data Structures
Operating Systems
Machine Learning

CERTIFICATES

2020 Agile Software Development
2020 AWS Cloud Practitioner
2019 Artificial Intelligence A-Z™
2019 Advanced Java Programming
2019 Deep Learning: Face Recognition

EXPERIENCE

CEPHEID | SOFTWARE DEVELOPMENT ENGINEER

July 2021 – Present | Sunnyvale, CA

- Responsible for full-stack design, development, and debugging of GeneXpert Infinity product software using Core Java and SQL. Working towards enhancing and maintaining existing software with new features and increased performance.
- Worked on Database migration using SQL on SSMS combined with JUnit test cases to ensure consistency in data.
- Successfully complete Phase 1 of GeneXpert Infinity product software development following Agile Software Development Methodologies.

SEROTONIN LABS INC. | SOFTWARE ENGINEER INTERN

June 2020 – Aug 2020 | San Francisco, CA

- Worked on Full stack development and Data Visualization of user dashboards related to Supplement consumption and activity measurement.
- Developed web app using React Native to display user dashboard connected to MongoDB back end database.
- Worked on ML Model to analyze resting heart rate of 100+ real time users every night in order to correlate heart rate sleep pattern with supplement intake.

TATA ADVANCED SYSTEMS | SOFTWARE ENGINEER INTERN

Jan 2019 – March 2019 | Bangalore, IN

- Worked along with a team to complete the Autopilot System called AP Swarm. Worked on developing code for the Communications and Calibrations of the Autopilot System using C++.
- Collaborated with different teams using Agile Software practices to determine requirements and solutions in order to effectively build Auto Pilot AP Swarm.

AVIAN AEROSPACE | SOFTWARE ENGINEER INTERN

Dec 2017 – Feb 2018 | Bangalore, IN

- Research and building of a Quadcopter using 3D Printer, Embedded C and Raspbian. Developed Computer vision projects using OpenCV and Python.
- Using ROS and Python with OpenCV, developed multiple smart functionalities like follow feature, object recognition, Path follow and many others.

PROJECTS

• DETECTION OF MYOCARDIAL INFARCTION USING COMPUTER VISION AND DEEP LEARNING | PYTHON, ML/AI, PYTORCH

Feb 2021 – May 2021 | Computer Vision UTA (Submitted for Publication)

• COMPLETE FULL STACK DEVELOPMENT OF E-COMMERCE WEBSITE USING REACT JS AND FIREBASE | JAVA, JAVASCRIPT, REACT JS

Mar 2021 – Apr 2021

• AUTOMATED FACE RECOGNITION SYSTEM FOR MONITORING CLASS ATTENDANCE | PYTHON, JAVA, OPENCV, FLASK, GCP

Feb 2020 – June 2020 | Cloud Computing UTA

• ROBOT ARM CONTROL VIA HEAD GESTURE BASED INTERFACE | JAVA, PYTHON, ROS, C++, GAZEBO, RVIZ

Feb 2020 – June 2020 | Heracleia Computing Lab UTA