

# Vishnu Gopal Rajan

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Software Engineer II  
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## EDUCATION

### THE UNIVERSITY OF TEXAS AT ARLINGTON

MASTER'S IN COMPUTER SCIENCE  
Aug 2019-May 2021  
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  
Web Data Management

### UNDERGRADUATE

Data Structures  
Operating Systems  
Machine Learning  
Computer Networks

## CERTIFICATES

2021 Agile Software Development  
2021 AWS Cloud Practitioner  
2021 Artificial Intelligence A-Z™  
2019 Advanced Java Programming  
2019 Deep Learning: Face Recognition

## EXPERIENCE

### DANAHER CORPORATION - CEPHEID | SOFTWARE ENGINEER II

July 2021 – Present | Sunnyvale, CA

- Contributing to the Product Lifecycle Management (PLM) of 3 GeneXpert products by delivering more efficient, smarter, and less tightly coupled Firmware updates using GeneXpert product software.

### SOFTWARE ENGINEER I

- Worked on a team 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 data integrity and consistency after migration.
- Successfully completed 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)

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

Feb 2020 – June 2020 | Heracleia Computing Lab UTA

### • AUTOMATED SELF DRIVING CAR USING SEMANTIC SEGMENTATION AND DEEP LEARNING | ML/AI, PYTHON, OPENCV

June 2018 – June 2019 | BIT Machine Learning Lab