

BHAMINI RAJANNA

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EDUCATION

Stony Brook University

Stony Brook, NY

Master's in Computer Engineering (Fall 2021)

Expected Dec

2022 Participant at **Grace Hopper Celebration of Women in Computing 2021 (vGHC 21)**.

K. S. Institute of Technology

Bangalore, India

Bachelor's in Electronics and Communication

GPA: 7.99/10

June 2015 - May 2019

Related course work: Computational models for Computer engineers in Java, Mobile Sensing applications and Data Structure and Algorithms.

SKILLS & CERTIFICATIONS

- **Languages:** C#, Python, Java, C++, Go, SQL, HTML/CSS.
- **Frameworks and Tools:** React, .NET MVC, Angular Java, Kubernetes, Docker.
- **Cloud:** AWS, Containerization and Virtualization in Cloud computing.
- **ML Toolkits:** TensorFlow, Open CV, Apache Flink.
- AWS Solution Architect Associate certification, Infosys

WORK EXPERIENCE

Stony Brook University Graduate School | Graduate Teaching Assistant

Aug 2021 – Dec 2021

- Teaching Assistant under Professor Xin Wang for the undergraduate course – ESE 224 Advanced Programming and Data Structures in C++.
- Leading the project design and mentoring 8 students. Conducting labs, grading assignments and tests for 21 students and prepared lecture handouts for the Professor.

Full Stack Software Developer, Infosys

Dec 2019 - Aug 2021

- Developed and enhanced existing EMAS application to multilingual web application.
- Integrated 3 web application modules leading to 28% increase in efficiency.
- Designed and implemented RESTful API.
- Enhanced the existing application through responsive UI and context sensitive navigation.
- Comprehension with Low Code- No Code (LCNC) technology using Mendix.
- Received the prestigious Zenith-RISE Awards for contribution towards technical advancements, engaging the key technology stakeholders and for client appreciations towards the complex technical builds.

Digegrow Digital Marketing Agency

Jan 2019 – Dec 2020

- Co-founded and worked with 12 clients to enhance their online presence by 42% through SEO, ORM, web design-ing, social media marketing and content writing.

ACADEMIC PROJECTS

Data Stream Processing at the edge, Stony Brook University

Aug 2021 – Dec 2021

- Currently, working on multimodality sensing and analyzing data to find baselines in vital signs, routines in daily activities, and changes. Working on analyzing real time series data and stream processing using Apache Flink and ML platform TensorFlow.

The Realtime Lifesaver Bag, KSIT

Mar 2018 – Sep 2019

- Motivated my team to work on advanced research and subsequently, we proposed the idea of “Life Saver Bag”. Also led my team at the IEEE Kalpana competition where I presented the idea in the presence of 4 panelists. With reference to the project, I proposed 3-level instant flood water purification for potability and path retracing technology which is regarded a crucial component for patent approval.

Biomorphic Redundant Robot for Disaster Surveillance, KSIT

Sep 2018 – Apr 2019

- Led the project team and worked on live video streaming with object detection and recognition at the disaster affected areas and provided the rescue team with the same data through BMHRRDS application for further assistance.
- Push notifications were enabled using Firebase Cloud messaging in the app, for the surveillance team to realize the identification of hazardous gas, flame detection, human motion detection and transferred the data to Google Cloud Storage. This project was proclaimed to be the best project of 2019.

PATENT AND PUBLICATIONS

- “The Realtime Lifesaver Bag” – Indian Patent number: 201941038911 – Date of Application: Sept 26, 2019. <http://www.ipindia.nic.in/>