Rishabh Bansal

Computer Engineer, MIEEE, MACM, AWS Certified

bansalrishabh@hotmail.com ✉

+1 (703)-826-9214 📱

Iowa, United States 📍

linkedin.com/in/brishabh 🔗

bansalrishabh Ⓢ

A passionate and strong academic achiever with excellent research, time management and problem solving skills. Works well under high pressure and consistently meets deadlines and targets while delivering high quality work.

EDUCATION

Computer Engineering
Iowa State University, USA
01/2018 – Present   *GPA- 3.70*

Computer Engineering
Amity University, India
07/2017 – 12/2017   *GPA- 8.58*

WORK EXPERIENCE

Software Engineer Intern
Micron Technology
01/2020 – Present   *Manassas, Virginia*
Micron Technology, Inc. is an American producer of computer memory and computer data storage including dynamic random-access memory, flash memory, and USB flash drives. Micron is the world's 3rd largest manufacturer of DRAM and NAND memory chips.

Achievements/Tasks

- Helping Probe department with migration from Flask to Django where both are the API of Python. This will help them to increase the speed and efficiency. Also helping them o reduce lines of codes and making it more relevant. Implementation of class methodology for better understanding

- Working on Migration from Perl language to Python. To make the code more readable. Also, updating the code as needed by the department. Improving code quality my implementing many useful methods. Fulfilling the department needs as well.

- Helping the team with building up the Web application for tracking the equipment by using the Angular as the coding language.
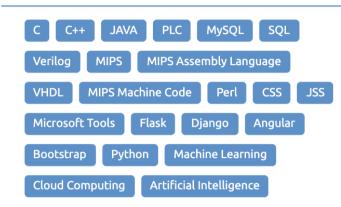
Technical Support
Iowa State University
08/2018 – 05/2019   *Ames, Iowa*
Achievements/Tasks

- Troubleshoot and resolve software conflicts, online course problems, and virus issues.
- Setup and install new computers for Extension staff.
- Diagnose and repair hardware issues on computers.

SKILLS

C C++ JAVA PLC MySQL SQL

Verilog MIPS MIPS Assembly Language

VHDL MIPS Machine Code Perl CSS JSS

Microsoft Tools Flask Django Angular

Bootstrap Python Machine Learning

Cloud Computing Artificial Intelligence

PUBLICATIONS

Publication Type
Hetrogenous Computing Task Scheduling Using Improved Harmony Search Optimization
Author(s)
Mayur Agrawal, Rishabh Bansal, Ankur Choudhary, Arun Prakash Agrawal

01 July 2019
2018 International Conference on Advances in Computing, Communication Control and Networking (ICACCCN)

Published by IEEE and SCOPUS Indexed

Publication Type
Extension of the PingER Project onto Mobile Devices using Android Applications
Author(s)
Aayush Jain, James David, A. Sai Sabitha, Les Cottrell, Bebo White, Abhay Bansal, Rishabh Bansal

29 July 2019
2019 9th International Conference on Cloud Computing, Data Science & Engineering (Confluence)

Published by IEEE and Indexed in SCOPUS in Joint Co Authorship with SLAC, Stanford University

Publication Type
A Review Paper On The Application Of Knowledge Graph On Various Service Providing Platforms
Author(s)
Vanshika Vikas Nigam, Shreya Paul, Arun Prakash Agrawal, Rishabh Bansal

09 April 2020
2020 10th International Conference on Cloud Computing, Data Science & Engineering (Confluence)

Published by IEEE, SCOPUS Indexed

WORK EXPERIENCE

SCADA Intern
DC Water
05/2019 – 08/2019   *Washington, DC*

The District of Columbia Water and Sewer Authority provides drinking water, sewage collection and sewage treatment in Washington, D.C.

Achievements/Tasks
- Worked with Supervisory Control and Data Acquisition (SCADA) which is a control system architecture that uses computers, networked data communications and graphical user interfaces for high-level process supervisory management.
- Worked with Programmable Logic Controller (PLC) to fix some errors.
- Worked with SQL database to pull up past 24 hours report to determine if there was any issues with the alarms on the tank.
- Contributed to the project to move into the new SCADA network for high performance, better accessibility and more easy for workers on field to understand the system.

Teaching Assistant- Digital Logic's
Iowa State University
08/2018 – 12/2018   *Ames, Iowa*

Achievements/Tasks
- Teaching students on the topics Number Systems and Representation, Boolean Algebra, Logic Minimization, Arithmetic Circuits and Finite State Machines.
- Taking Weekly labs and helping out students with every kind of problem that they face during the Lectures and the labs.
- Also making them understand the concept of Computer-Aided Schematic Capture Systems, Simulation Tools, and hardware Description Language and Design of Digital Systems.

Teaching Assistant- Theoretical Foundations of Computer Engineering
Iowa State University
08/2019 – 12/2019   *Ames, Iowa*

Achievements/Tasks
- Helping Student with topics such as Propositional Logic and Methods of Proof; Set Theory and its Applications; Mathematical Induction and Recurrence Relations; Functions and Relations; and Counting; Trees and Graphs; Applications in Computer Engineering.
- Also helping out Professor with the Lecture and Grading the quizzes/home works.
- Having Weekly Office hours to help Student individually by clearing their doubts tought during the Lectures by the Professor.

PROJECTS

Designed a circuit to realize one digital machine that accepts input from switches and outputs to LEDs and 7-segment displays.

Implementation of a simplified Tetris-style or "falling blocks" type of 2D video game using JAVA.

Programming the iRobot with C language to traverse a course of obstacles starting at a random location to a retrieval zone within a set amount of time. This all needs to be done without bumping into objects, without falling into holes in the floor, without leaving the course bounded by IR beams, and without having to visually confirm where the robot is on the obstacle course.

PROFESSIONAL MEMBERSHIP

The Institute of Electrical and Electronics Engineers (IEEE) (08/2019 – Present)
The Institute of Electrical and Electronics Engineers (IEEE) is a professional association for electronic engineering and electrical engineering. IEEE is world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

The Association for Computing Machinery (ACM) (01/2020 – Present)
The Association for Computing Machinery (ACM) is an international learned society for computing founded in 1947.

SKILL COURSES

AWS Cloud Practitioner
AWS, Amazon

Introduction to Artificial Intelligence and Machine Learning
Udemy

Intoduction to Django (Python API)
Udemy

LANGUAGES

English
Native or Bilingual Proficiency

French
Limited Working Proficiency

Hindi
Native or Bilingual Proficiency

VOLUNTEER EXPERIENCE

Member
NGO, Paridhan
01/2017 – Present   *India, Delhi*
Aim to make this world a better place to live in and promotes universal brotherhood. We strive to fight against the social evil of poverty, illiteracy and all other deep-rooted worms of society.

SCHOLARSHIP / AWARDS

International Merit Scholarship (GOLD) (01/2018 – Present)
Iowa State University, USA

- Received International Merit Scholarship of USD $ 8000 per year, based on strong academic achievement, and outstanding talent or achievements.

Certificate of Appreciation, Vice President in Cambridge School Indirapuram Model United Nations Conference. (05/2017)
Cambridge School, India

VOLUNTEER EXPERIENCE

Member
Blood Donation

01/2018 – Present   *Iowa, USA*

Tasks/Achievements
- Donate blood 2 times every year

Student Ambassador for Admission Office
Iowa State University

05/2018 – Present   *Iowa, USA*

Tasks/Achievements
- Communicate with upcoming International student and help them to access resources within University

Member of IEEE Student Chapter
Iowa State University

08/2019 – Present

An international technical professional society devoted to advancing the theory and application of electrical engineering, electronics and computing. Among the activities are technical presentations, Closed Curriculum forums, the Engineering Survival Program, The Relay, the Project, etc.