



Rishabh Bansal

Computer Engineer, MIEEE, MACM, AWS Certified

Actively seeking full-time job opportunities starting in May 2021. 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.



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Iowa, United States



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bansalrishabh

SKILLS

C

C++

JAVA

Python

MySQL

Linux

Bootstrap

Perl

Flask

Django

HTML

Angular

PLC

Verilog

MIPS

VHDL

JSS

MIPS Machine Code

Microsoft Tools

Cloud Computing

LANGUAGES

English

Native or Bilingual Proficiency

French

Limited Working Proficiency

EDUCATION

Bachelors in Computer Engineering

Iowa State University, USA

01/2018 – 05/2021

GPA- 3.70

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.

Achievements/Tasks

- Migration of code from Flask to Django, API's of Python. Improving the speed and efficiency of the code by reducing lines of codes and making it more relevant. Implementation of the class methodology.
- Working on the Migration of scripts from Perl language to Python so that it could be used by the rest of the teams and be used easily in the future with Python.
- Used Bootstrap for responsive web design along with CSS media queries.
- Worked with BitBucket to manage the code repository.
- Worked with Linux server to resolve issues related to user configuration.
- Used Angular, TypeScript, HTML5, CSS3 to help building (SPA) Single Page Application.

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 the SQL database to pull up the past 24 hours report to determine if there were 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 easier for workers on the field to understand the system.

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.

PROFESSIONAL MEMBERSHIP

The Institute of Electrical and Electronics Engineers (IEEE) (08/2019 – Present)

The Association for Computing Machinery (ACM) (01/2020 – Present)

VOLUNTEER EXPERIENCE

Member

NGO, Paridhan

01/2017 – Present

Member

Blood Donation

01/2018 – Present

Student Ambassador for Admissions Office

Iowa State University

05/2018 – Present

Tasks/Achievements

- Communicate with upcoming International student and help them to access resources within the University

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 Indrapuram Model United Nations Conference. (05/2017)

Cambridge School, India

WORK EXPERIENCE

Teaching Assistant for Various Computer Engineering Classes

Iowa State University

08/2018 – Present

Ames, Iowa

Achievements/Tasks

- Teaching Recitation Classes every week to help student with the problem that they might feel during the lecture.
- Help all the students throughout the labs so that they could understand the concepts by applying their understanding towards the lab and show them more efficient ways to solve the problem.
- Also helping out Professor with the Lecture and Grading the quizzes/home works.
- Weekly Office hours to help students individually by clearing their doubts taught during the Lectures.

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.

Programed the iRobot with the help of C language to traverse a path filled with 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 confirm where the robot is on the obstacle course visually.

Worked with HTML, CSS, and JS to create a personal website. Also inherited Bootstrap for responsive Website.

PUBLICATIONS

Publication Type

Heterogenous Computing Task Scheduling Using Improved Harmony Search Optimization

Author(s)

Mayur Agrawal, Rishabh Bansal, Ankur Choudhary, Arun Prakash Agrawal

01 July 2019

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

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

Published by IEEE, SCOPUS Indexed