

RISHABH BASSI

Software Engineer with 3 years of Experience 🌐 Bryan, TX, USA - 77801

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Education

Texas A&M University

Master of Science in Computer Science

August 2022 - Present

College Station, Texas

Thapar University

Bachelor of Engineering - Computer Science, Specialization in Machine Learning CGPA 9.62

August 2015 - June 2019

Patiala, Punjab

Experience

Western Digital

Senior Engineer

July 2019 – Present

Bangalore, Karnataka

- Designed Robust Firmware for Error Handling of XOR to better handle defective NAND Memories.
- Planned Remodelling of HW Registers Verification in Firmware itself to avoid redundancies in Validation cycles.
- Revised Performance Gaps in Existing SSD FW to meet Blue Category Performance Numbers. Deployed Code with 25% increase in Write-Read CDM Benchmark.

Six Months Internship

Jan 2019 - June 2019

- Diagnostic Framework : Enhanced Capability of Framework by adding new diagnostic Paths for SSD Firmware as it gives bypass to actual Firmware and helps in crucial stages of Product Development.

Summer Internship

Jun 2018 - Aug 2018

- PERFORMANCE PROFILING AND OPTIMIZATION : Designed a Performance Counter Framework to help developer analyze defects in coding schemes, hence optimizing the bottleneck in SSD Firmware.

Technical Skills

Languages: Python, Java, C, C++, R

Web/Database: HTML, CSS, Javascript, SQL

Skills: Machine Learning, Natural Language Processing, Data Analytics

Developer Tools: VS Code, Source Insight, Android Studio, RStudio, PyCharm, MSOffice, Bitbucket

Technologies/Frameworks: Django, Jupyter, GitHub, Bootstrap3, WordPress

Projects

Political Propaganda Influence using Twitter Sentiment Analysis | *Python, NLP, ML* : [Project Code](#)

April 2021

- Predict influence of celebrities during elections using sentiment analysis on Retweets of their followers.

Humanoid | *Python, Natural Language Processing, Image Processing, Raspberry Pi* : [Project Report](#)

October 2018

- Build a Humanoid to function as a ChatBot using TensorFlow; Identify objects using OCR, perform functions such as Personalized AI and help in interview preparation.

Automatic Text Summarization | *Django, Python, Front End, Javascript NLP* : [Project Code](#)

April 2018

- Designed website to Utilize Natural Language Processing to summarize webpages or PDF to specified word limit

Combo Offers Portal | *Python, Django, Machine Learning* : [Project Code](#)

October 2017

- Web App Management portal for e-commerce websites for displaying inventory within specified budget

Achievements

🏆 Gold Medalist Thapar University - 2018

🏆 Merit Scholarship for Exemplary Academic Performance Thapar University - 2017-2018

🏆 National Scholarship Holder Senior Secondary - 2015

🏆 Work Level Recognition Awarded for Making it Happen and Doing it Together

Research / Leadership / Extracurricular

- Publication on Autonomous Tagging of StackOverflow Questions using Statistical Methods, [Link - ICCSIE 2018](#).
- Publication on Spirochaeta Bacteria Detection Using an Efficient Deep Learning Approach, [Link - ICCVBIC 2021](#).
- Applications of NLP to give human-like understanding to Networks - Remote Research under UIUC Professor Matthew Caesar, Fall 2021.
- Managed family business Pushap Industries by directing manufacturing workforce along with coordinating supply chain.
- Executive Member of Pratigya Society to teach underprivileged children, Toastmasters Club at Western Digital, Participation in Hackathons and Innovation Bazaar organized at Western Digital, Volunteering in NGOs.