

# 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
- Executive Member of Pratigya Society to teach underprivileged children and Toastmasters Club at Western Digital
- Participation in Hackathon organized at Western Digital, Innovation Bazaar and Volunteering in NGOs such as Akshya Patra, JAZZ HANDS