

RISHABH BASSI

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

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Education

Texas A&M University

Master of Science in Computer Science, Specialization in Machine Learning

Aug 2022 - Dec 2023

College Station, Texas

Thapar University

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

Aug 2015 - Jun 2019

Patiala, Punjab

Experience

Texas A&M University

Graduate Research Assistant

- Investigating bottlenecks in Data Processing of Synthetic Aperture Radar for Satellites and Optimizing code to fast-track enormous matrix computations using algorithms and parallel computing.

Aug 2022 – Present

College Station, Texas

Western Digital

Senior Engineer

- Designed Robust Firmware for Error Handling of XOR used in launching products worth USD 1-2B revenue.
- 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.

Jul 2019 – Jul 2022

Bangalore, Karnataka

Six Months Internship

- Diagnostic Framework : Enhanced Capability of Framework by adding new diagnostic Paths for SSD Firmware which helped in debugging 90% of issues in crucial stages of Product Development.

Jan 2019 - Jun 2019

Summer Internship

- Performance Profiling and Optimization : Developed a Performance Counter Framework to help developer analyze defects in coding schemes, hence optimizing bottleneck in SSD Firmware.

Jun 2018 - Aug 2018

Technical Skills

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

Web/Database: HTML, CSS, Javascript, SQL

Skills/Relevant Coursework: Algorithms, Machine Learning, Natural Language Processing, Software Engineering, Operating Systems, Deep Learning, Data Analytics, Computer Architecture, Discrete Mathematics

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

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

Projects

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

Apr 2021

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

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

Oct 2018

- Build a Humanoid to function as a ChatBot deploying 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](#)

Apr 2018

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

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

Oct 2017

- Established Web App Management portal for e-commerce websites to display 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](#).
- Research on Applications of NLP to give human-like understanding to Networks under UIUC Professor Matthew, 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.