RISHABH BASSI

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

📞 (341) 345-7799 ✉️ rbassi@tamu.edu in https://linkedin.com/in/rishabh-bassi 🌐 https://bassirishabh.github.io/

Education

Texas A&M University	**Aug 2022 - Dec 2023**
Master of Science in Computer Science, Specialization in Machine Learning CGPA 4.0	*College Station, Texas*
Thapar University	**Aug 2015 - Jun 2019**
Bachelor of Engineering - Computer Science, Specialization in Machine Learning CGPA 9.62	*Patiala, Punjab*

Experience

Texas A&M University   **Aug 2022 – Present**
Graduate Research Assistant   *College Station,Texas*
- 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.

Western Digital   **Jul 2019 – Jul 2022**
Senior Engineer   *Bangalore,Karnataka*
- 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.

Six Months Internship   **Jan 2019 - Jun 2019**
- 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.

Summer Internship   **Jun 2018 - Aug 2018**
- Performance Profiling and Optimization : Developed a Performance Counter Framework to help developer analyze defects in coding schemes, hence optimizing bottleneck in SSD Firmware.

Technical Skills

Languages: Python, Java, C, C++, R, Ruby
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, RStuido, PyCharm, RubyMine, MSOffice, Bitbucket
Technologies/Frameworks: OpenMP, TensorFlow, GPT3, Django, Jupyter, GitHub, Bootstrap3, WordPress

Projects

TA Management Portal | *Ruby, Rails, FrontEnd* : Project Code   **Aug 2022**
- Provides a portal for student applications for TA positions in the computer science department.

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.

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 manfacturing 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.