

RISHABH BASSI

Software Engineer with 4 years of Experience 🌐 California, USA - 94536

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

Education

Texas A&M University

Master of Science in Computer Science, Specialization in Machine Learning CGPA 4.0

Aug 2022 - May 2024

College Station, Texas

Thapar University

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

Aug 2015 - Jun 2019

Patiala, Punjab

Experience

LinkedIN

May 2023 – Aug 2023

Summer Software Intern | **Automation, ML, Python, System Design, Full-Stack, SQL** Mountain View, California

- Designing and implementing a Real-Time Automation framework in MYSQL to detect and report data discrepancies in COLOS, improving data integrity and system reliability saving upto 70% of engineers effort and time.

Texas A&M University

Aug 2022 – May 2023

Graduate Research Assistant | **NLP, MPI, PyTorch, GPU/HPRC, C++**

College Station, Texas

- Researched bottlenecks in Synthetic Aperture Radar data processing for Satellites and Optimized code for increasing performance by 90% over enormous matrix computations using efficient algorithms, GPU & parallel computing.

Western Digital

Jul 2019 – Jul 2022

Senior Engineer | **Firmware, System Design, C++, Backend Development**

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 and Summer Internship

Jun 2018 - Jun 2019

- Diagnostic Framework and Performance Profiling and Optimization: Enhanced Capability of Framework by adding new diagnostic Paths for SSD Firmware and developing a Performance Counter Framework which helped in debugging 90% of issues in crucial stages of Product Development.

Technical Skills

Languages: Python, Java, C, C++, R, Ruby, Rails, MySQL, HTML, CSS, JS, React, NodeJS, REST

Technologies/Skills: BERT, GIT, TensorFlow, GPT3, Django, Jupyter, GitHub, Bootstrap3, Linux, OpenMP, MPI, Eigen, Pytorch, Flask, AWS, ML, Docker, OpenCV, Keras, LLM, Azure, SSMS, Kafka, Espresso, HDFS, GPU, A/B Test, Kubernetes

Relevant Coursework: Algorithms, ML, DS, Natural Language Processing, Software Engineering, Operating Systems, Deep Learning, Data Analytics, Networking, Computer Architecture, Information Retrieval, Cloud/Distributed Systems

Developer Tools: VSCode, GCP, Source Insight, Android Studio, RStudio, PyCharm, RubyMine, Bitbucket, Sequel ACE

Projects

Travelix | *React, Python, AutoRec, ML*: [Website](#)

May 2023

- A Personalized travel recommendation system for users based on their preferences and travel history.

TA Management Portal | *Ruby, Rails, FrontEnd*: [Website](#)

Aug 2022

- Provides a portal for student applications for TA positions in the computer science department.

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

Apr 2021

- Predict the 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 a website to Utilize Natural Language Processing to summarize webpages or PDFs to a specified word limit.

Achievements

🏆 Gold Medalist Thapar University - 2018

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

🏆 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 the 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.