

Rishabh Parekh

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EDUCATION

THE UNIVERSITY OF TEXAS BS | ELECTRICAL AND COMPUTER ENGINEERING, HONORS

Junior | May 2022

GPA: 4.0 / 4.0

COURSEWORK

Software Design I/II/Lab
Data Science Principles
Digital Image Processing
Operating Systems
Algorithms
Embedded Systems
Probability & Random Processes
Linear Algebra
Discrete Mathematics

SKILLS

PROGRAMMING

Java Python C++ C
Flask React.js PyTorch
Linux Google Cloud
MongoDB

SOFTWARE TOOLS

Automation Anywhere (RPA)
Vivado (FPGA configuration)
Autodesk Eagle (PCB Design)

OTHER EXPERIENCE

TEACHING ASSISTANT

Intro to Embedded Systems;
~330 students.

UT SEEK

Mentor for 20 students
at Austin elementary schools.

NARNARAYAN DEV

YUVAK MANDAL

Houston Chapter Head

increased weekly turnout 4x.

Virtual Camp Director

500+ international attendees.

TABLA (SOUTH ASIAN

PERCUSSION INSTRUMENT)

Performed at Houston Children's
Museum and the Houston
Miller Outdoor Theater.

EXPERIENCE

FLAPMAX | SOFTWARE ENGINEERING INTERN

Jul 2020 – Aug 2020 | Austin, TX

- Refactored anomaly detection algorithm to run 73% faster while improving modularity using vectorization and caches.
- Innovated on a natural language processing web application using React.js, jQuery, Python while testing Flask APIs on Postman.
- Designing a front-end for a video analytics dashboard using React.js and Ajax.

ENERGY VENTURES PRIVATE EQUITY | BUSINESS ANALYST INTERN

Jul 2019 – Aug 2019 | Houston, TX

- Reported on 900+ clean tech funds' internal rate of returns to plan the firm's objective of diversifying from oilfield services.
- Drafted 45-slide investment memo for a \$6M deal with market research and various financial analyses for Investment Director.
- Created a distribution waterfall (carried interest) model of a \$10M investment, in keeping with the applicable fund terms.

AT&T | SOFTWARE ENGINEERING INTERN

Jun 2017 – Aug 2017 | Houston, TX

- Reduced costs by \$2,450 (6%) with Robotic Process Automation for cutting cycle time by 35 hours, increase client focus, and decrease processing errors.
- Streamlined client feedback by merging organization's 2 sites to enhance the user's experience.
- Accurately merged two data-tracking systems by inspecting a 500K-point data set to reduce bot-history conflicts.

PROJECTS

SAFETY DEVICE EXTENSION FOR CHEVRON

Python, PyGame Graphics

- Devised and programmed a model for Chevron to direct at-risk employees away from gas leaks to the nearest uncontaminated safe-spot.
- Adopted by Chevron with \$850K in requested funding.

AIRTOUCH | CODE , DEMO

Python, OpenCV, Haar Cascade Classifier

- Designed a real-time virtual whiteboard using depth camera, Haar Cascade Classifier, and principle digital image processing.
- Received the *Ram's Horn Best Project Award* for digital image processing class.

POKÉDEX USING MACHING LEARNING | CODE , DEMO

Python, PyTorch, Fast.ai, Flask, Flutter

- Developed an image classifier to detect and show details of the four classic Pokémon with 98.2% accuracy.
- Deployed model in both a web application and an Android mobile application.

TWITTER CRIME REPORT VISUALIZATION | CODE , DEMO

Weak Supervision, BERT Transformer, Twitter & MapBox APIs, Flask, Firebase

- Achieved 92% accuracy classifying Tweets containing signs of crime/violence while collecting location information.
- Display a heat-map of crimes/violence so users can view details, sources, and avoid harm.