

TEJAS SABOO

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Computer Science Bachelor of Science, Mathematics Certificate in Applied Statistical Modeling Overall GPA: 3.91 (154 Credit Hours)	Aug 2019 - May 2022
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RELEVANT SKILLS

Programming Languages: Python, Java, C, C++, JavaScript, MATLAB, R, Swift, HTML, CSS, SQL

Tools/Frameworks: Elastic Stack, React, AWS, Jenkins, Gradle, Spring, Docker, Git, Jira, Grafana, Bash, Figma

AI/ML: PyTorch, TensorFlow, Keras, OpenCV, Spark, pandas, scikit-learn, NLTK, Matplotlib, NumPy

Skills: Learning, Leadership, Ideation, Strategy, Teamwork, Public Speaking, Creativity, Product Management, Design Thinking

EXPERIENCE

Trend Micro – Software Engineer Intern (Cloud Architecture Team); Austin, TX June 2021 - Aug 2021

- Created 11 Kibana monitors that send automated alerts to production CSaaS slack channels, helping over 60 engineers track and analyze C1NS customer usage patterns, flag unusual activity, locate device health issues, and identify upsell opportunities
- Re-architected PayG and Device Monitoring AWS lambdas to separate business logic, improve performance, and reduce costs
- Practiced Agile methodologies to keep track of the project, break down tasks, identify dependencies, and communicate progress
- Tech: AWS, DynamoDB, Elastic Stack, Java, Python, Painless, Cloud One Network Security, Jira, LaunchDarkly, Linux, Git, Jenkins

Trend Micro – Software Engineer and Cybersecurity Intern (DVLabs Team); Austin, TX June 2020 - Aug 2020

- Categorized 20,000+ Network Intrusion Prevention System (IPS) Filters by industry vertical and product type using ML, NLP, and Google's Knowledge Graph API to improve IPS device resource dependencies and security coverage for every customer
- Corrected human error typos in IPS Filter metadata and sales team customer data using NLP and Python's FuzzyWuzzy library
- Wrote and shipped 30+ IPS Filters to protect customers by researching, reproducing, and testing vulnerabilities
- Tech: Python, Java, JavaScript, Regular Expressions, SigKB, Wireshark, Trident, Telus, Jira, pandas, FuzzyWuzzy, scikit-learn, Git

PROJECTS

Predictive Quantum Process Tomography Oct 2021 - Nov 2021

- Awarded 2nd Place at UT Qiskit Fall Fest Quantum Computing Hackathon and advanced to IBM Qiskit Global Invitational Hackathon
- Investigated efficient algorithms for identifying and correcting errors caused by noise in quantum circuits using twirling and ML
- Generated a dataset of 825 Pauli Transfer Matrices to train a non-linear neural network with a fidelity loss function by iterating through 25 levels of amplitude damping and dephasing for 33 randomized circuits and performing quantum process tomography
- Simulated amplitude damping with a controlled-Ry gate targeting the environment followed by a controlled-NOT gate targeting the qubit and simulated dephasing with a Ry gate on the environment followed by a CZ gate on the pair
- Tech: Python, Qiskit, PyTorch, SymPy, NumPy, Matplotlib, pandas, scikit-learn

Revelio Systems – Co-Founder and Chief Operating Officer; Austin, TX Jan 2020 - May 2020

- Led 3 engineers to develop a tool to monitor the performance of cloud-based microservices and display 4 metrics with Grafana
- Used Scapy to monitor client and microservice HTTP requests, format packets, and send info to Rust backend to update InfluxDB
- Tech: Java, Python, Rust, HTML, Scapy, Grafana, InfluxDB, Eureka, Zuul Server

CAMPUS LEADERSHIP

UT Senate of College Councils - Senator Fall 2019 - Present

- Improving the accessibility and quality of academic research at UT Austin by collaborating with faculty, administrators, and college councils to host campus events, research conferences, and lectures, pass legislation, and fund scholarships and grants

Longhorn Entrepreneurship Agency – Partnership Management Lead Fall 2019 - Present

- Helping student-founders build out their MVP, find product-market fit, scale, pivot, secure funding, and contact industry mentors

HONORS AND AWARDS

- Eagle Scout Aug 2018
- UT Austin College Scholar, University Honors Every Semester (5x) Dec 2021
- Graduated with Honors, Texas Academy of Mathematics and Science Oct 2019
- 4th Place DECA International Career Development Conference, Emerging Technologies Marketing Strategies Event Apr 2019
- Gold President's Volunteer Service Award (2x, 500+ Community Service Hours) Jan 2018

Work Eligibility: Eligible to work in the United States with no restrictions (U.S. Citizen)