Zach Cramer

Austin, TX | Personal Website | linkedin.com/in/zach-cramer | 512-865-7570 | zachacramer@gmail.com

EDUCATION

The University of Texas at Austin   Austin, TX
B.S. in Computer Science   *May 2025*
- GPA: 3.6
- Relevant Coursework: Computer Architecture, Operating Systems, Algorithms, Machine Learning, Data Structures, Discrete Math, Probability, Statistics, Multivariable Calculus, Linear Algebra
- Honors & Awards: Placed first at **Jane Street Puzzle City**, Dean's List
- Organizations: Texas Blockchain Engineering, Texas A4C

TECHNICAL SKILLS

Tech-Stack: Java, C++, C, Python, JavaScript, Typescript, Swift, MySQL, MongoDB
Technologies: React, Node.js, Git, Scikit-Learn, AWS Lambda, AWS S3

EXPERIENCE

Amazon   May 2023 - August 2023
Software Development Engineer Intern   *Sunnyvale, CA*
- Developed a full stack web app (React, Typescript, Java), centralizing data access and analysis, used by **100+ partner teams** in production.
- Optimized viewing for Anomaly Detection, integral to monitoring the health status of over **80 billion** metrics per day.
- Innovated **lambda integration** for swift **S3 data extraction**, accelerating real-time visualization.
- Implemented **search functionality**, empowering users to efficiently navigate and leverage data insights.
- Collaborated cross-functionally with various teams, including UX designers, backend engineers, and data scientists, ensuring a holistic and **user-centric approach to application development and data visualization**.

HID Global   July 2022 - September 2022
Software Engineer Intern   *Austin, TX*
- Worked on a project to **reduce production time** of radio frequency readers over **30 percent** by automating the timing of the production cycle. This was done using a Python script that implemented an **automatic timer** displayed on a **GUI**, and then reported the time to the company database.
- Collaborated with international engineers to fix the *Saturn,* a machine responsible for **20 percent** of RFID tag production at the Austin location.
- Followed the Agile Scrum methodology, wrote and debugged scripts that directly impacted production.

iD Tech   June 2022 - August 2022
Online Instructor   *Austin, TX*
- Planned and integrated lesson plans, provided real time examples and projects in **Java, C++, and Calculus**.

PROJECTS

Bankruptcy Prediction
- Employed **Neural Networks, Decision Trees, Random Forests Ensemble, and ADABoost Classifie**r to determine whether or not a company will go bankrupt. Predicted bankruptcy with **97% accuracy** through feature engineering and proper data cleaning.
- Languages/Technologies: Python, Scikit-Learn

Huffman Compression
- Built a **lossless compression algorithm** with a Graphical User Interface that uses a variety of canonical data structures (**binary trees, priority queues, hashmaps**) to compress and decompress files.
- Languages/Technologies: Java, Java FX

TCP Networking
- Implemented the **TCP networking** protocol to ensure reliable messaging on an unreliable network. Employed **Reed-Solomon** error correction to account for bit flips and bit loss, used a **Caesar Cypher** to encrypt/decrypt packages.
- Languages/Technologies: C++