# SAMER NAJJAR

**Portfolio:** samern88.github.io

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## EDUCATION

**The University of Texas at Austin**, Austin, TX May 2022
*Bachelor of Science and Arts in Mathematics, Certificate in Elements of Computing*

- Department GPA: 4.0 Overall GPA: 3.95
- Graduated with highest honors (top 4% of class)
- Relevant coursework: software engineering, machine learning, data analytics, web programming, linear algebra, discrete math, probability, applied number theory (cryptography), numerical analysis

**Austin Community College**, Austin, TX Dec 2019
*Associate of Science in Mathematics, Associate of Arts in Foreign Language (French)*

- Department GPA: 4.0 Overall GPA: 3.94

## SKILLS

**Technical/computer skills:** Python, Java, Go, JavaScript/TypeScript, PHP, C++, CSS, HTML, SQL, Unix, Git version control, data science in Python

**Languages:** Arabic (fluent), French (intermediate)

**Certifications:** Data Science Boot Camp (10-week course) by General Assembly (Sep - Nov 2019)

## EXPERIENCE

**Indeed, Inc.**, Austin, TX Sep 2022 - present
*Associate Security Software Engineer*

- Improved/maintained Java services that scan IPs, files, and URLs for threat intel in a production environment.
- Discovered and fixed a bug that was present for 3 years, which allowed us to catch +31,000% more malicious IPs on the company network.
- Researched, designed, and implemented a third-party integration into our IP-scanning service that gave our clients threat intel on 99.98% of IPv4 space, up from 0.00035%. The service caught 483% more threat IPs after release of the feature (in a two-week period). Commended by our Security Director.
- Organized a forum for exchanging knowledge, expertise, and skills between two security engineering teams that garnered engagement from multiple senior engineers and our principal security engineer.
- Designed and implemented architecture upgrades that improved service availability from 99.6% to 100%
- Technologies used: Java Spring Boot, Jenkins CloudBees CI/CD, CloudVM, JUnit/Mockito for testing

**Komak Solutions**, Missouri City, TX Apr - Sep 2019
*Full-stack software engineer (independent contractor)*

- Developed code for an online electricity supplier marketplace using TypeScript/JavaScript, MongoDB, AWS, ReactJS, and Mocha/Chai for testing; consistently completed more tasks per sprint than expected.
- Created backend code that processes customer orders, interacts with APIs, and selects products via filters, alongside frontend design for product cards.
- Noted by employer for having extraordinary ability to quickly master new concepts, I cooperated within a 9-person SCRUM team, consistently meeting sprint goals.

## PROJECTS

**Heart Arrhythmias ML Models (2021):** Trained machine learning models on ECG data from 10,000+ patients to diagnose heart conditions, achieving 94% accuracy and a recall score of 0.93. Built in Python (sklearn, numpy, pandas, matplotlib). Used feature engineering and classifiers like KNN, decision trees, and logistic regression.

**"Squeezer" Website (2021):** With 3 other devs, built a web app that predicts stock short-squeezes from technical indicators. Used webscraping & APIs. Predictions updated semi-hourly by cron job. Used SQL, PHP, Python, and AJAX.

**Table of Free Weights (2022):** A mathematical exploration of a cellular automaton generating numbers as a product of one very large prime and a few small primes. Required high computation; utilized SSH and tmux on a remote server.