SAMER NAJJAR

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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, calculus, 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

Certifications:
- Supervised Machine Learning by Stanford Online
- Data Science Boot Camp (10-week course) by General Assembly

SKILLS

Technical: Python, Java, Go, JavaScript/TypeScript, PHP, C++, CSS, HTML, SQL, Unix, Git version control, data science, machine learning, REST APIs, gRPC, SCRUM/Agile

Languages: Arabic (fluent), French (intermediate)

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, Kubernetes, AWS, Jenkins 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: 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: With 3 other devs, built a web app that predicts stock short-squeezes from technical indicators. Used web scraping and APIs. Predictions updated semi-hourly by a cron job. Used SQL, PHP, Python, and AJAX.

Table of Free Weights: A mathematics exploration of a cellular automaton that generates numbers that are a product of one very large prime and a few small primes. Required heavy computation; used SSH and tmux on a remote server.