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: data analytics, software engineering, applied number theory (cryptography), numerical analysis, discrete math, linear algebra, web programming

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 (expert), Java (proficient), JavaScript/PHP/CSS/HTML (proficient), C++ (intermediate), SQL (beginner), Git version control (proficient), Unix (proficient), data science in Python (proficient)

Languages:
Arabic (fluent), French (intermediate)

Certifications:
Data Science Boot Camp by General Assembly: a 10-week intensive boot camp that teaches data science in Python, including relevant concepts in statistics and probability (Sep - Nov 2019)

EXPERIENCE

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

- Improved and maintained Java services that scan IPs, files, and URLs for threat intel, in a production-scale 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.
- Conducted research into and met with representatives from various security products in the industry to recommend to my team, which were later integrated into our services.
- Designed and implemented architecture upgrades that improved service availability from 99.6% to 100%
- Technologies used: Java Spring Boot, Jenkins CloudBees CI/CD, CloudVM

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

- Worked remotely; built, tested, and debugged code for an online marketplace for electricity suppliers
- Wrote backend code that: processes customer orders, interacts with APIs that get info from energy companies (clients), selects products from MongoDB database with filters, and more. Also wrote frontend ReactJS code/HTML for product cards
- Wrote unit and integration tests using Mocha/Chai for each component I was responsible for
- Collaborated with dev team of about 9 people under SCRUM framework to reach sprint goals on time
- Noted by employer as having extraordinary ability to pick up new concepts on the job and being an efficient worker, completing more tasks per sprint than expected
- Technologies used: TypeScript/JavaScript, MongoDB, Mocha/Chai testing, AWS, Git, ReactJS

PROJECTS

- **Heart Arrhythmias Data Analysis (2021):** An independent data science project in which I analyzed data from over 10,000 patients and built models that diagnose heart conditions from ECG data. Used Python libraries numpy, pandas, matplotlib, sklearn. Used classifiers KNN, decision trees, logistic regression.

- **“Squeezer” Website (2021):** With a team of 3 other devs, built a web app called “Squeezer” that uses webscraping and APIs to get stock market data to then predict which stocks are most prone to a potential short squeeze. Used cron jobs to update the predictions every 30 min so data is roughly real-time. Used SQL, PHP, JavaScript, HTML, CSS, AJAX, and Python.

- **Table of Free Weights (2022):** A mathematical exploration of a particular cellular automaton that generates numbers of the following useful form: a product of one very large prime and a small power of 2 or few other small primes. Requires lots of computational power; used SSH and tmux on a remote server.