

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), JavaScript/PHP/CSS/HTML (proficient), C++ (intermediate), SQL (intermediate), Git version control (proficient), Unix (proficient), data science in Python with pandas/matplotlib/sklearn/etc. (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

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 colleagues
- 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 10,000 patients and built models to predict heart conditions from ECG data. Used Python libraries numpy, pandas, matplotlib, sklearn. Used data models KNN, decision trees, and 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.