

# SAMER NAJJAR

Portfolio: [snajjar.me](https://snajjar.me)

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## SKILLS

### Languages

Python, Java, JavaScript, PHP, C++, Go

### DevOps

Kubernetes, Terraform, Docker, CI/CD

### Other

AI/ML, data science, IAM, web dev.

## EXPERIENCE

**Indeed, Inc.**, Austin, Texas

Sep 2022 - May 2024

*Associate Security Software Engineer*

- Worked on fraud threat detection and identity & access management (IAM), with on-call responsibilities.
- Migrated all IAM roles to open-source OIDC provider, part of initiative to save \$265,000 annually in licensing fees.
- Enhanced monitoring and alerting for our core infrastructure OAuth platform.
- Identified and fixed 3-year-old bug, restoring and vastly improving malicious IP detection on the company network.
- Enhanced our IP-scanning service by designing and implementing the integration of third-party threat intel, expanding coverage from 0.00035% to 99.98% of IPv4 space, and increasing threat detection by 483%.
- Took initiative to streamline and partially automate our deployment process, saving several hours weekly for team.
- Independently developed a library of tools for the team to automate performance metric reporting, saving several hours of manual data-collection and analysis monthly.
- Identified a high-impact bug in the widely-used JupiterOne cyber asset analysis platform, and initiated a patch.
- Organized and managed a knowledge-sharing forum between business-critical security teams.
- Technologies used: Java, Go, Python, Kubernetes, gRPC, Argo CD, Terraform, Docker, AWS

**Komak Solutions**, Missouri City, Texas

Apr - Sep 2019

*Full-Stack Web Developer (contractor)*

- Developed an online electricity supplier marketplace using TypeScript, MongoDB, AWS, ReactJS.
- Developed backend for processing orders, credit checks, and product filtering; designed frontend product cards.
- Noted by manager for consistently delivering sprint goals and having keen ability to quickly master new concepts.

## EDUCATION

**The University of Texas at Austin**, Austin, Texas

In-progress

*Master of Science in Artificial Intelligence*

- GPA: 3.5
- Relevant coursework: machine learning, deep learning, Bayesian inference, MLE, neural networks, computer vision

**The University of Texas at Austin**, Austin, Texas

May 2022

*Bachelor of Science and Arts in Mathematics, Certificate in Elements of Computing*

- 4.0 department GPA, 3.95 overall GPA
- Graduated with Highest Honors (top 4% of class)
- Relevant coursework: software engineering, machine learning, data analytics, web programming, linear algebra, discrete math, probability, multivariate calculus, cryptography, number theory, numerical analysis

**Austin Community College**, Austin, Texas

Dec 2019

*Associate of Science in Mathematics, Associate of Arts in Foreign Language (French)*

- 4.0 department GPA, 3.94 overall GPA

**Certifications:** Supervised Machine Learning by Stanford Online, Data Science Boot Camp by General Assembly

## PROJECTS

**Heart Arrhythmias ML Research:** In an independent research project, I 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.

**SuperTuxKart AI:** In my graduate Deep Learning course, we trained a competitive AI for SuperTuxKart Ice-Hockey using DAgger imitation learning, with plans for strategic enhancements through reinforcement learning. I led the writing of a publication-worthy technical paper on our findings, highlighting the impact of machine learning in gaming.

**"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.